

10 DOWNING STREET

From the Private Secretary

9 November, 1983

Dear Cullum,

Intellectual Property Rights and Innovation

The attached report has been prepared by Dr. R. B. Nicholson, the Chief Scientific Adviser, Cabinet Office. Your Department will have seen an earlier draft version which was circulated for comments by Dr. Nicholson with his letter dated 19 July to the Secretary of State for Trade and Industry. The major changes since incorporated into the present document are sidelined.

The Prime Minister has agreed that the report should be published as a consultative document, and will herself lay it before Parliament. The draft covering introduction explains why the topic is felt to be important. You will see from the last paragraph that the Government does not have to stand behind any of the views of the report at this stage. Its authorship rests clearly with the Chief Scientific Adviser; the Government wishes to seek views on his proposals.

BA

I would be grateful if your Department would look through the text to identify any statements that might cause concern to the Government. Comments should be sent directly to Dr. Nicholson for the final text of the Green Paper to be prepared.

I am sending copies of this letter and the enclosures to Brian Fall (Foreign and Commonwealth Office), with the request that they look particularly at paragraphs 5.25 and 5.29 on the Paris Convention; to Elizabeth Hodkinson (Department of Education and Science). Richard Stoate (Lord Chancellor's Department), John Kerr (H.M. Treasury), Mary Brown (Lord Gowrie's Office), Steve Godber (Department of Health and Social Security), Robert Lowson (Ministry of Agriculture, Fisheries and Food), Richard Mottram (Ministry of Defence), for comment; and for information to Richard Hatfield (Cabinet Office) and Robin Nicholson (Cabinet Office).

M. C. McCarthy, Esq., Department of Trade and Industry lour ever, David



10 DOWNING STREET

From the Private Secretary

DR. NICHOLSON Cabinet Office

Intellectual Property Rights and Innovation

The Prime Minister was grateful for your minute of 1 November on intellectual property rights and innovation.

The Prime Minister agrees that the report attached to your minute should be published as a Green Paper (subject to any further drafting points from colleagues); she has approved the draft introduction you proposed for her own signature.

I am arranging for copies of the draft report and introduction to be circulated to other Government Departments as you suggested. I should be grateful if your office could now supply us with the appropriate number of copies.

I am sending copies of this letter to Callum McCarthy (Department of Trade and Industry) and Richard Hatfield (Cabinet Office).

DAVID BARCLAY

8 November, 1983

PRIME MINISTER

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Intellectual Property Rights

the law only from the constal to the control to Robin Nicholson seeks your agreement to publication of his report on intellectual property rights as a Green Paper, with an introduction by yourself. He argues that this would be a good way of sustaining the momentum of your Lancaster House Seminar. ecciality

Paragraph 3 of his minute to you explains that there is a disagreement between Departments about his principal recommendation that the Patent Office should be hived off. DTI support him in this, but both the Chancellor and Sir Robin Ibbs feel that the case for a new quango has not been made out. There is substantial agreement on the other recommendations.

The disagreement on hiving off perhaps does not matter, provided that the report clearly has the status of a consultative document, and provided that authorship rests clearly with Robin Nicholson. It would be for DTI to co-ordinate a Government response.

The next steps, if you agree, might be as follows:

- (i) FM to have a look at the draft introduction at Flag A.
- (ii) Circulate the introduction and the report to other Government Departments for clearance. (They will not necessarily agree with it, but could be asked to look out for sensitive points.).
- (iii) Publication as soon as possible thereafter.



JH 291

PS / Secretary of State for Trade and Industry

Dr R B Nicholson Cabinet Office 70 Whitehall London SWIA 2AS

DEPARTMENT OF TRADE AND INDUSTRY 1-19 VICTORIA STREET LONDON SWIH 0ET

TELEPHONE DIRECT LINE 01-215 5422 SWITCHBOARD 01-215 7877

& December 1983

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Dear Dr Nicholson,

INTELLECTUAL PROPERTY RIGHTS AND INNOVATION

Thank you for your letter of 29 November 1983; we are grateful for the changes you propose to your draft which certainly answer many of our concerns. We are, however, still uneasy about the references in paragraphs 5.18, 5.19 and 5.22 to the compulsory licensing of know-how. Our industry already has difficulties over compulsory licensing of patents; for example, the pharmaceutical industry has recently expressed its concern to the Secretary of State about the compulsory licensing of pharmaceuticals in Canada. In many ways, know-how is even more important in protecting the products of our industry abroad; and moreover know-how is often the most expensive part of innovation. Industry has equally found very worrying indeed the possibility of compulsory licensing of know-how being adopted by developing countries and others. We can understand that you feel that such a provision would help in the UK but to propose it in a Government Green Paper would be damaging abroad and deeply resented by our industry.

- 2 As for Mr Stephen Dorrell's Bill on service marks, the Government has now decided to support this measure but the Bill has been talked out every time it has been presented in Parliament. Its fate therefore is uncertain.
- 3 Finally, with reference to paragraph 4.4(iv) of the draft, the Community Trade Mark system is to be established by a Regulation (not a Convention); and we believe it would be helpful if this paragraph referred to the bid by HMG for London as the site for the European Community Trade Mark Office.
- 4 I am sending a copy of this letter to Peter Ricketts (FCO), Richard Stoate (LCD), David Barclay (No 10) and Richard Hatfield.

RUTH THOMPSON

Private Secretary

Trollegal property 2 1 21 H **EQ** DEC 1082

CONFIDENTIAL CABINET OFFICE Control Policy Por Staff 70 Whitehall, London sw1A 2AS Telephone 01-233 7089 W.0798 29 November 1983 Ms Ruth Thompson PS/Secretary of State for Trade and Industry Department of Trade and Industry 1-19 Victoria Street London SW1 Dear Ms Thompson INTELLECTUAL PROPERTY RIGHTS AND INTOVATION Many thanks for your helpful comments on the report on Intellectual Property Rights and Innovation. Taking these together with the comments by Peter Ricketts and Richard Stoate, we propose to remove all reference to exclusive compulsory licences in paragraph 5.10 - 5.21 and also remove the speculation about threats to the Paris Convention in 5.26 - 5.28. I attach the revisions which I think meet your concerns without destroying the argument in the text. We are still working on the technical points raised in Richard Stoate's letter and the third paragraph of Peter Ricketts' letter, but I am confident we can meet these as well. I would appreciate your advice on the matter of Mr Dorrell's Bill which is referred to in the penultimate paragraph of Richard Stoate's letter and the fourth paragraph of Peter Ricketts' letter. We plan to finalise the text of the report on 6 December and Peter Davies will be in touch with you and others by phone on 5 or 6 December to tidy up any remaining loose ends. Your menly, ROBIN B NICHOLSON Chief Scientific Adviser cc: Mr Ricketts, FCO Mr Stoate, LCD Mr Hatfield, CO SMr Barclay, No 10

Te4ts of Patent Validity

- 5.4 There are many problems, particularly for the small firm, in litigation. Not only is it expensive costs in a simple case could be £5000-£10,000 to the winner and £50,000-£60,000 to the loser but it also takes up valuable managerial effort. The delays in reaching a final decision can mean that commercial opportunities are missed. All this helps to explain why nine out of ten intellectual property cases submitted to Counsel are settled before they reach court. In many other cases, the patentee is deterred from starting to pursue the infringer by the complexities and costs.
 - 5.5 Simplification of the legal processes in general, and a reduction in the almost mandatory role of the legal professionals, is a requirement much wider than intellectual property. However it is possible to reduce one particular feature of intellectual property cases dispute about the validity of the patent through a specific simplification.
 - 5.6 The alleged infringer nearly always disputes the validity of the patent and the majority of court cases have this at their core. The patentee in the UK cannot at present attempt to dissuade the infringer from pursuing the validity point expensively through the courts by asking the Patent Office to reexamine the validity of the patent on the basis of submitted evidence. Nor can the alleged infringer challenge the validity of a weak patent in a simple non-adversarial manner. The US, on the other hand, does have provisions which might be adapted to the UK situation.
 - 5.7 The US recently introduced an amendment to its patent legislation to allow anyone to request a re-examination of a patent at any time after grant (though it must be on the grounds of hitherto unrevealed prior art is knowledge or use of the invention not identified at the time of the grant of the patent). If someone other than the patentee makes the request, the patentee is notified and allowed a little time in which to comment. Otherwise the whole procedure is ex parte and therefore non-adversarial. The US system is described at Annex C.
 - 5.8 It is expected that one result of this new US procedure will be to help to resolve disputes expeditiously and without excessive legal cost before they reach the Court. If the US Commissioner for Patents upholds the patent on reexamination, that might well discourage the competitor from going to court. Conversely if the competitor gets a verdict from the Commissioner that the patent is unsound, that might well discourage the patentee from fighting the case in Court.
 - 5.9 We believe that a provision for ex parte re-examination of the patent would be of considerable help to the small innovator in the UK; and, departing from the US model, we would want re-examination to be able to include all evidence, not just hitherto unrevealed art. The applicant for re-examination would pay the full costs but this would be much lower than the current legal costs. Patent barristers and agents whom we have consulted are, perhaps understandably, unenthusiastic about such a change but admit that it would prevent many cases (estimates have been as high as 90%) proceeding further into the system.

5.10 WE RECOMMEND that an ex parte right of re-examination be introduced.

Protection Against Patent Abuse: Compulsory Licences

5.11 There are several procedures for correcting various forms of patent monopoly abuse such as non-working, keeping prices high by deliberately restricting production, obstructing licensing deals. But these are virtually never used. We do not believe that this is because no abuse takes place but because the chances of first getting adequate redress and then turning it into a commercial success are heavily weighted against potential applicants. We suggest some adjustments which might shift the balance.

5.12 Agreements involving patents are not exempt from the UK law on restrictive trade practices, anti-competitive practices and abuse of monopoly power:

i. The Restrictive Practices Court can find that an agreement is contrary to the public interest and order that it should not be implemented.

- ii. When the Monopolies and Mergers Commission (MMC) finds abuse of a monopoly which involves a patent, the Secretary of State may compel an alteration in the abusive practice by order.
- iii. Following on from an MMC Inquiry, the Secretary of State may also request the Comptroller to provide "relief" from the abuse through the patent. This can take the form of an order cancelling or modifying restrictive conditions in patent licences or declaring licences under the patent to be available as of right.

However the patent terms and conditions cannot be amended except by the Comptroller. Thus the legal instruments by which abuse of the property right is curbed are found in legislation relating to property rights, but they can be activated by the use of competition law.

- 5.13 But these remedies, provided by the law on competition, have been little used in the field of intellectual property. There have been only one or two orders prohibiting patent agreements or demanding price reductions and the Secretary of State has never requested the Comptroller to amend the terms or conditions of a patent following a MMC investigation. The reasons for the apparent ineffectiveness of these remedies go beyond the remit of this report and into the field of competition policy in general. However, in these circumstances it becomes all the more important that those remedies within the Comptroller's own power and which companies themselves can activate, can be made to work. The most significant of these, especially for the small company, must be the right to grant a compulsory licence.
- 5.14 Three years after the grant of a patent any third party can apply to the Comptroller General for a compulsory licence on, broadly, the following grounds:

i.inadequate working in the UK;

- ii. the UK demand for products based on the invention is not being met on reasonable terms. This can cover monopolistic prices;
- iii unreasonable obstruction, including outright refusal, of licensing negotiations.

The Comptroller General has the right to determine whether the applicant's case is valid and the terms of the licence, including the amount of the royalties and whether it should be a sole licence (ie preventing the patentee from licensing to others).

- 5.15 Despite these procedures for compulsory licences, the use made of them seems to be minimal. From 1977 to the present there have been 12 applications: one has been granted, six have been withdrawn and five are pending. We doubt that the procedures are such that the mere threat of invoking them has enabled small companies to get satisfactory deals in most cases.
- 5.16 The main reasons for this situation would seem to be:
 - i.three years later the market has often moved on and a compulsory licence will not help;
 - ii. the difficulty of proving to the Comptroller that the patentee is not taking some (however nominal) steps to work the patent to a reasonable extent;
 - iii. the potential applicant is reluctant to apply for a compulsory licence because he knows that the unwilling granting of a licence is unlikely to be accompanied by the know how essential for the working of the invention. The published patent might not, in practice, give enough information to duplicate the invention. (In theory, it is therefore deficient.)
 - iv. The Comptroller General has discretion over the granting of compulsory licences and it is widely believed that he is wary of his staff becoming enmeshed in long cases because of resource constraints;
- 5.17 We believe it would be worthwhile to try to get the system for compulsory licences to work better. But if the rules were changed to allow for compulsory licences to be granted virtually automatically for non-working, that would tend to drive the inventor to increased dependence on secrecy rather than on patenting. The result would be worse than the existing situation. We have therefore looked at half-way house solutions.
- 5.18 In the US, in cases where anti-trust legislation has been invoked to reduce strong anti-competitive practices, a compulsory licence, accompanied by the transfer of specified know-how, can be awarded to a competitor as part of the redress. In the UK there is no specific provision for compelling the patentee to transfer know-how but the Comptroller is empowered in a general way to determine the terms of compulsory licence. We should consider using this existing provision in the Patent Act for a more effective compulsory licence, including the transfer of know-how, in the event of anti-competitive abuse. We are aware that the big companies and multi-nationals would probably be hostile to any compulsory transfer of technology. But medium-sized and small businesses might support the measure.
- 5.19 The compulsory transfer of know-how might also be justified where licensing negotiations for unused patents are being unreasonably obstructed. Such obstruction can take the form of an outrageously high fee to the small licensee. This may occur because for the inventor, perhaps a big research establishment, the prospective licensing deal represents a small net present value in return for considerable work in defining and negotiating the relevant know-how. For the licensee, however, an effective licence, including

how-how, could make all the difference for him in developing a new product in a limited market provided that the patentee's licensing fee is not too severe a burden. But we recognise that before accepting the granting of such a licence the definition of what constitutes unreasonable obstruction would need to be refined. It might be fair to allow a patentee to withold the information which would enable a competitor to operate in the same market. But if the potential licensee were active in another sector, say civilian products as opposed to defence products, or in another geographical area, then the grant of a compulsory licence with know-how might be justified.

5.20 As at present, Crown establishments should not be excluded from any changes in the practice on compulsory licences. They employ almost a quarter of the nation's R&D manpower and own a great deal of exploitable technology. The force of any changes would be weakened if they were excluded.

5.21 We do not expect or want our proposal to lead to any great increase in the number of compulsory licences granted. We hope that, after test cases, it will lead to a general belief that such licences are an effective instrument and that therefore patentees will be readier to grant satisfactory licences with the necessary know-how.

5.22 WE RECOMMEND that the Patent Act should be used for the creation of more effective compulsory licences, including the transfer of know-how, in cases of anti-competitive or monopoly abuse and of unreasonable obstruction of licensing negotiations. Crown establishments should not be exempt from such licences.

5.23 On the European level, the Community's rules on competition owe much to the influence of US anti-trust laws and are considerably tougher on anti-competitive practices and monopoly abuse than our Restrictive Practices and Competition Acts. The Commission does not want property rights in patent pools and exclusive licensing agreements to be used to distort the market or to establish anti-competitive practices. In 1979 it issued a draft regulation, not yet agreed, which proposes the exemption in block of certain patent agreements from the competition rules in the Treaty of Rome (Article 85.1) but specifies provisions in patent agreements between larger firms which would not be allowed. Industry has complained that the approach discriminates against big companies trying to use Europe as their home market, that a dynamic innovation policy requires the lack of restrictions on contracts and that the absence of an agreed and acceptable regime discourages new agreements.

5.24 There is some force in industry's arguments. But it is in the interests of small businesses, the consumers and the development of the international market generally that there should be some restrictions on cartels which cut out legitimate competition. We think it would be desirable to ask the Commissioners in charge of Competition, the Internal Market and Industry to make a concerted effort to break the log jam. A scheme which allowed intervention in cases of anti-competitive practices but did not require the registration of all licensing agreements might be possible: after all the UK provides for such a regime.

5.25 WE RECOMMEND that the UK take the initiative in requesting the Commission to come forward with practicable proposals for reconciling measures to deter anti-competitive abuse in patent agreements with the legitimate interests of industrialists trying to use Europe as a home market.

aris Convention: Compulsory Licences

5.26 In the International Convention for the Protection of Industrial Property (the Paris Convention described in Annex A) there are limits on when a country can grant a compulsory licence if a foreign owned patent is not being worked in its territory. Patents are worked less in developing countries if only because of the comparative lack of technology and industrial capacity there. At the same time very few compulsory licences are applied for and granted, no doubt in large part for the same reasons. Contentious discussions have taken place in the Convention's diplomatic sessions over whether there should be revisions to allow easier granting of compulsory licences, perhaps of sole compulsory licences (preventing the patentee granting other licences), or of exclusive licences (excluding even the patentee).

5.27. In recent negotiations, it apparently took some time, even for our industrialists, to realise that some countries were bargaining for something additional to technology transfer through local working. They wanted to make it easy to in effect, revoke a patent on weak grounds soon after grant and to allot the equivalent monopoly elsewhere. This would, for example, allow cutting out the original patent holder as an importer and the licensing of an alternative monopoly importer. In many cases the latter would be based in a country with less rigorous protection of intellectual property than in most developed countries. Ideas would be pirated and markets would be under-cut by manufacturers who did not have to bear the initial research and development costs. Extension of such a practice would be damaging to industrial development and to trade and against the interests of the developing countries and developed countres alike. In paragraph 5.17 above we rejected such a route for the UK.

5.28 WE RECOMMEND that before and during any further negotiations of the Paris Convention there should be a careful analysis of the industrial interests at stake in the UK.

Employee Inventors

5.29 Whether or not there is exploitation of an invention by the company which owns it, the inventor himself may be the best promoter of his own invention. In the UK the employee has no right to take title in an invention and the employer has no obligation to protect the invention even if he exploits it. The law only states that the employee should be rewarded if one of his inventions is exploited to outstanding benefit by the employer. In Germany, if the employer does not take up the rights in the invention within four months, the employee is free to take title in it and exploit it. If the employer does exploit the invention, he has to reward the employee according to a defined scale and has either to take legal protection for the invention or pay compensation to the employee.

5.30 We believe that we should strengthen the rights of inventors along the German lines, but only in terms of ownership of <u>unused</u> invention. We do not propose formalising the system of reward for exploited invention. We accept that this might generate some problems:

- the individual inventor might isolate himself from the research team to avoid sharing any reward or property rights entitlement;

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Foreign and Commonwealth Office

London SW1A 2AH

28 November, 1983

Dear Dr Nicholson,

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Intellectual Property Rights and Innovation

We have received a copy of the latest draft of your report on Intellectual Property Rights and Innovation. I have since seen Richard Stoate's letter to you of 14 November, and Ruth Thompson's of 21 November.

David Barclay asked that the FCO look particularly at paragraphs 5.25 and 5.29 on the Paris Convention. We agree with the DTI view that if these paragraphs are published, the UK delegation at future sessions of the Paris Convention would have some difficulty explaining the difference between the Government's views and those contained in your report.

We also have one or two comments on European Community aspects of the report. We agree with Richard Stoate's comments on the problem of ratification of the Community Patent Convention. Both the Irish and the Danes have constitutional difficulties over ratifying the Community Patent Convention; the Danes need to secure a 5/6 majority in favour in their Parliament, and have failed several times to do so. The prime responsibility for resolving these problems (or for devising a procedure which would avoid them) rests with the Commission. If it proves impossible for a member state to ratify the existing Convention, then the Commission will have to think again. The report could perhaps call for Commission proposals on this issue to be put to the Council.

The Department of Trade and Industry may wish to give you an indication of their plans for the registration of service marks (paragraphs 4.2 - 4.6) now that Mr Dorrell's Private Member's Bill has failed. The reference in paragraph 4.4 (iv) should be to a Regulation establishing a Community Trade Mark (not a Convention); and it would be helpful if that paragraph could stipulate that HMG is bidding for London as the site for the EC Trade Mark Office (there are unsolicited counter-bids from the regions, eg Manchester, which we do not support).



I am copying this letter to David Barclay (No 10), Callum McCarthy (Trade and Industry), Elizabeth Hodkinson (Department of Education and Science), Richard Stoate (Lord Chancellor's Department), John Kerr (HM Treasury), Mary Brown (Lord Gowrie's Office), Steve Godber (Department of Health and Social Security), Robert Lowson (Ministry of Agriculture, Fisheries and Food), Richard Mottram (Ministry of Defence), and Richard Hatfield (Cabinet Office)

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(P F Ricketts) Private Secretary

Dr R B Nicholson Chief Scientific Adviser Cabinet Office 70 Whitehall Inde: Antection of Intellectual Prostry July 82.

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MINISTRY OF DEFENCE MAIN BUILDING WHITEHALL LONDON SW1A 2HB Telephone 01-330XXXX 218 2111/3

25th November 1983

Dear Dr Nicholson

INTELLECTUAL PROPERTY RIGHTS AND INNOVATION

We have had a look at the text attached to David Barclay's letter of 9th November to Callum McCarthy at the Department of Trade and Industry, and I am writing to say that this Ministry is content for the report to be published now as a Green Paper.

We shall be offering a detailed response at official level following publication, and in this connection it will be helpful to know in due course what arrangements will be made for coordination of further action within Whitehall. We should like to be kept in touch at that stage, one way or another.

I am sending copies of this letter to David Barclay (No 10), Callum McCarthy (DTI) and Richard Hatfield (Cabinet Office)

Yours sincerely

(S H LOWE)

Private Secretary

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PS /Secretary of State for Trade and Industry

Dr R B Nicholson Chief Scientist Cabinet Office 70 Whitehall London SW1A 2AS

DEPARTMENT OF TRADE AND INDUSTRY 1-19 VICTORIA STREET LONDON. SWIH OET

TELEPHONE DIRECT LINE 01-215 5422 SWITCHBOARD 01-215 7877

27 November 1983

Deas Dr Nicholson,

INTELLECTUAL PROPERTY RIGHTS AND INNOVATION

As you know, David Barclay wrote to me and others interested on November about your report on intellectual property rights and innovation. I would like first to take this opportunity to say that my Secretary of State welcomes the decision to publish your report as a Green Paper, and is content for this Department to take the lead in receiving comments and formulating the Government response. David Barclay also asked for comments to be sent direct to you on any statement in the report which might cause us concern: we have now had a chance to consider the text, and I would like to offer the following comments, bearing in mind that the proposed Green Paper will make it clear that it is not to be taken as a reflection of the Government view.

- First, we are doubtful whether the criticisms of the patent profession and CBI Intellectual Property Panel which you make can be substantiated in more cases, particularly as regards their expertise (or otherwise) in raising development finance.
- 3 More important in our view is the possible repercussions your paper could have on the position of the United Kingdom delegation at future sessions of the Paris Convention Revision Conference. Whatever the position at home, in the negotiations abroad it will be very difficult for our delegation to distance the Government from your proposals. It will also be hard for them to explain the distinction between the acceptability - from your viewpoint of the proposals for a legal regime allowing the grant of exclusive compulsory licences and the compulsory transfer of know-how in the context of the UK market, with all the built-in safegards that our legal system provides, and the proposals from the developing countries to tip the system more in their favour.
- We do not believe the Green Paper should make any reference to the Paris Revision, or the concessions that could be made, or



come down so clearly in support of exclusive compulsory licences and the compulsory transfer of know-how in the United Kingdom, unless you have evidence (and we have none) that patentees are deliberately whithholding developments from the market or distorting competition to such an unacceptable degree as to warrant such draconian measures. UK industry will certainly not find the measures acceptable, and Ministers set their face against such concessions being made to the developing countries at the time of the latest session of the Diplomatic Conference.

- Incidentally, the question whether the Comptroller has the power to grant exclusive compulsory licences is highly contentious (and not clear cut, as the present text suggests). Although the Comptroller has apparently the power to grant such licences, he may not act at variance with the Paris Convention (Section 53(4), Patents Act, 1977), and in the view of many people, and many signatories to the Paris Convention, the Convention does not permit States to grant exclusive compulsory licences, at least for non-working of the invention.
- 6 We would therefore urge extreme caution at taking up a clear-cut position at this stage while the Diplomatic Conference is still in being. We would not wish to give any hostages to fortune.
- 7 In view of the fact that this is a matter on which the Foreign and Commonwealth Office has been specifically asked to comment, I am copying our reply to Brian Fall, as well as to David Barclay at No 10.

Your sincordy

RUTH THOMPSON

Private Secretary

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FROM THE PRIVATE SECRETARY



Our Ref: 124/499/01

Den Dr. Wichorson.

House of Lords, SW1A 0PW

14 November 1983

Upbur

Intellectual Property Rights and Innovation

I have received, under cover of a copy of a letter from David Barclay in the Prime Minister's Office to the Private Secretary to the Secretary of State for Trade and Industry a copy of the latest draft of your report on Intellectual Property Rights and Innovation.

I have not shown this draft to the Lord Chancellor, since insofar as it affects him it does not differ very significantly from the draft which he saw in July. He did however express considerable interest in that draft, and his attention was drawn to a few points on which it was either inaccurate or misleading.

Since these were not primarily matters within his responsibility he did not feel that it was for him to comment on them at that time. However some of these points remain in your latest draft, and I feel he would wish me to draw them to your attention.

In paragraph 3.32 it is stated that the Community Patent Convention "was concluded in 1973". The <u>European Patent Convention</u> was signed on 5th October 1973, but the <u>Community Patent Convention</u> was signed only on 15th December 1975.

/In the

Dr. R. B. Nicholson Chief Scientific Adviser Cabinet Office Whitehall London S.W.1

In the following paragraph you state:

"If one or two Member States do not ratify the Convention in the near future, there may be case \sic 7 for going ahead without them".

Article 98 of the Convention provides that it shall enter into force three months after the deposit of the instrument of ratification by the last signatory State to take this step. There is therefore no way in which the Convention can enter into force "If one or two Member States do not ratify". A number of signatory States regard the Resolution on Litigation of Community Patents, annexed to the Convention, as a matter of such central importance that they will not ratify the Convention until agreement on litigation is obtained. The Government has given a high priority to resolving the remaining objections, but until resolution is obtained there is no possibility of the Convention entering into force.

Paragraphs 4.2 to 4.6 deal with service marks, and end by recommending that the registration of trade marks should be extended to services. Paragraph 4.3 states that in the last Parliament there was a Private Member's Bill (it was, in fact, a private Peer's Bill, introduced by Lord Campbell of Alloway) to introduce registration for service marks. You point out, accurately, that this was opposed by the Government, and you believe that the position should be revised.

As you know Mr. Stephen Dorrell has introduced a Bill in the Commons with a similar object, and the Secretary of State for Trade and Industry has sought and obtained the agreement of his colleagues that the Government should support this Bill, and give drafting assistance but it failed to secure a second reading last Friday. The Department of Trade and Industry will be able to give you further details, but one consequence will I think be that you will wish to revise this passage.

I am sending copies of this letter to David Barclay and all the other recipients of his letter of 9th November.

Richard Stoate

Trade: Protection of Intellectual Paperly.

W.0738

9 November 1983

TO:

FROM: VAL MEADOWS, Cabinet Office

For distribution with my wer g letter please.

INTELLECTUAL PROPERTY RIGHTS AND INNOVATION

In Robin Nicholson's absence today I am sending you nine copies of the draft report as requested in your letter of 8 November.

I have pencilled the appropriate Department on each copy so that we may know here where each numbered copy goes.

CONFIDENTIAL W 0731 PRIME MINISTER INTELLECTUAL PROPERTY RIGHTS AND INNOVATION 1. With his 14 July minute to you, John Sparrow submitted the draft CPRS report on Intellectual Property Rights and Innovation. You agreed that Ministers should be asked for their comments and that, as I led the team preparing the draft report, I should prepare the final version. This is now attached. The Final Text 2. I have had comments from the Chancellor, the Secretary of State for Trade and Industry, Mr Timothy Raison and Lord Gowrie. I have also seen Sir Robin Ibbs' comments to the Secretary of State for Trade and Industry. I attach a final version of the report in which the comments have been taken into account.

3. In general there was a good deal of support for improving the system of intellectual property rights and their accessability, in order that they might be better suited to the needs of innovating individuals and companies. In particular the Secretary of State for Trade and Industry said that the general thrust of the report and one of its major recommendations, hiving off the Patent Office and its 1300 civil servants, was in line with his Department's current thinking. However other Ministers did not feel that the case for such a step had been made sufficiently clearly. I believe that there is a strong case and that its presentation has now been improved in the final text. The case is based on involving the customer community in its management, inducing responsiveness to customer needs, giving wider terms of reference that include active marketing of the value of property rights, and better links with the private sector. The attached final report attempts to make all these points

CONFIDENTIAL. more clearly. We have also given a better definition of the two-tier patent scheme and a number of other detailed points. The major changes are side-lined. The Next Steps 4. You will now wish to consider the next steps. One possibility that I would like to suggest is that of publication of the report as a consultative document - a Green Paper. 5. The Government has already made it clear that wealth creation through industrial innovation is an important part of national recovery. Your seminar at Lancaster House addressed the generation, financing and exploitation of innovation. The role and responsibility of the individual researcher and businessman has been stressed. The monopoly of BTG on publicly funded research has been broken. 6. In your own speech at Lancaster House, you stressed the importance and value of intellectual property rights to innovation. A consultative document which followed this theme and made recommendations to improve the accessibility and use of such rights, especially for individuals and small businesses, could be very timely. It would help to keep up momentum and would signal again the Government's intention to improve the climate for wealth creation and to encourange a more commercially aware culture in the UK. Moreover the issues dealt with in the report are complex in their ramifications. The Government's handling of them could benefit from a debate cast wider than Whitehall civil servants who, by and large, have no experience of innovation and commercial exploitation. At this stage the Government does not have to stand behind any of the views in the report. It could be laid before Parliament with a covering introduction from yourself, but with the authorship of the report itself clearly resting with me as Chief Scientific Adviser. There could be an invitation to send comments to the Secretary of State for Trade and Industry who would be responsible for formulating the Government's response in due CONFIDENTIAL

CONFIDENTIAL course (and, incidentally, tying it in with the overdue outcome of the 1981 Green Paper on "Reform of the Law relating to Copyright, Designs and Performers' Protection"). The alternative to this approach is for the report to be circulated to Ministers for comment, following which the Secretary of State for Trade and Industry would have his officials draw up a White Paper. In my view this approach exposes the Government's thinking unnecessarily early in the public debate which is necessary in such a complex area. It would also result in the loss of the wider benefit to be gained from your laying the report before Parliament in the aftermath of your Seminar. 10. If you accept my recommendation for the report to be published as a Green Paper, an introduction to accompany it would be necessary and I attach a draft. 11. I believe that the report contains no material likely to embarrass the Government, and it draws only on information which is in the public domain. But the DTI and the FCO may wish to look carefully at paragraphs 5.25-5.29 which deal with the international negotiations on revisions to the Paris Convention. Other Departments may wish to comment on the revised text, with an eye to its publication. I attach a draft letter which your Private Office might use when circulating copies of the report (available from my office). 11. A copy of this minute and the report goes to the Secretary of State for Trade and Industry and to Sir Robert Armstrong. la pp. ABN. ROBIN B NICHOLSON Chief Scientific Adviser 1 November 1983 CONFIDENTIAL

Trade in 62 Just property RI MARIENTE Draft introduction to cover a consultative document to be presented to Parliament by the Prime Minister.

INTELLECTUAL PROPERTY RIGHTS AND INNOVATION

The Government's aim is to create an economy which provides stable prices, lasting prosperity and employment for the British people. We shall only overcome our difficulties in positive ways. If we are able to create new and successful business on a sufficient scale, we shall be well on the way to solving many of the material problems which assail our country, and some, but not all, of the other problems too.

We are concerned not only with the new science-based industries, but with the more traditional business and commerce as well. The application of innovative new techniques to their processes, designs and administration is vital to survival and expansion.

The discussion, at a seminar organised by the Government at Lancaster House in September, showed that major developments are taking place in the generation, financing and exploitation of innovation based on science and technology. Few companies, however, could afford to embark on expensive programmes of research and development without the assurance that ownership of the fruits of this will be safeguarded. That means that those individuals generating new ideas, whether in universities, companies, Government research establishments, or even in schools, should take very seriously indeed the protection of those ideas — generally known as intellectual property —through patents, copyright and registered designs.

Dr R B Nicholson, Chief Scientific Adviser in the Cabinet Office, was asked to study whether the national system of intellectual property rights was well suited to encouraging innovation. The recommendations that he makes are intended to improve the awareness of the value of those rights, their accessibility and their usage particularly by individuals and small businesses. The Government welcomes such a contribution to such an important, though too often overlooked, subject.

There would be many ramifications of legislative changes in such a complex area. The Government therefore wishes to seek views widely before attempting to weigh the advantages and disadvantages of the actions proposed. Written comments on the report or neighbouring issues would be welcomed. These should be addressed to the Secretary of State for Trade and Industry, 1 Victoria Street, London SWIH OET, who will take the lead in formulating the Government's views on Dr Nicholsons report.

The Rt Hon Margaret Thatcher MP
10 Downing Street, SW1

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INTELLECTUAL PROPERTY RIGHTS AND INNOVATION

A report by the Chief Scientific Adviser, Cabinet Office

SUMMARY

- 1. New products, new services, and new manufacturing processes, no less than artistic works or scientific advances, have an idea as their origin. If the idea can be recorded and defined in some way it becomes a property intellectual property which can be bought and sold. It can be legally protected against uninhibited copying by use of intellectual property rights such as patents, registered designs, trade marks and copyright.
- 2. A nation such as the United Kingdom relies heavily on getting value from its intellectual property. We have a limited raw material base and a small home market. But we have a good education system, a tradition of world-leading inventions and of involvement in international trade. The ability to claim ownership of ideas is a vital step in securing a profit on them.
- 3. The overall structure of our intellectual property system is in line with that of most other countries: and in some areas it works well, particularly for the larger companies. But nationally, compared to our main competitors, there is insufficient awareness of the importance and value of intellectual property rights. The rights are relatively innaccessible because their use is complex, costly and time consuming. The procedures give the impression of an arcane world rather than of a modern technological Britain. While the Government devotes considerable resources to encouraging innovation generally, it does not give adequate priority to providing the system of intellectual property rights that British business requires.
- 4. This report considers how best to support the commercialisation of ideas, and in particular how to help small but enterprising firms. They are least able to utilise the present rights but may need them most to protect their main asset an innovatory product. Larger competitors will have more legal resources as well as greater manufacturing capability and an established position in the market.
- 5. We are not recommending a fundamental overhaul of the system but we are suggesting a package of changes which fall into three main categories:

5.1 Awareness and accessibility

Little would be gained by changes to the intellectual property system unless those able to make commercial use of it in fact do so. To encourage this, we recommend:

- the Patent Office being given a new look, freed of civil service constraints, and given broader terms of reference as a separate statutory body. It should be self-supporting from fees and free to finance investment programmes. The Secretary of State for Trade and Industry should retain the power to issue directives and appoint a management board and advisory committees.
- more active <u>promotional work</u> by the Patent Office to market the importance of property rights to those with exploitable ideas, and also the use by others of published patents and registered designs as a national technical database;
- a review of the monopoly right of representation held by registered patent agents to consider allowing others to function as paid representatives of inventors, to bring more price flexibility and to leave the choice with the customers of the property system;
- a <u>Whitehall Liaison Group</u> bringing the interests of all relevant Departments more clearly into the discussion of domestic and international issues, but also requiring Departments to realise the importance of intellectual property rights for innovation.

5.2 Coverage and consistency

Rights should be available where they would support commercial exploitation. We have drawn on the rights available to overseas business and recommend:

- the extension of registered trade marks to cover <u>service marks</u> intended to give the service industries the same rights as manufacturers, as is generally the case abroad, and to respond to the growing economic importance of the service sector;
- the introduction of a <u>registered inventions</u> scheme to give a more readily accessible form of protection; of particular benefit to small businesses;

the amendment of the <u>design copyright</u> laws - to remove an anomaly whereby certain mass produced articles are over-protected.

5.3 Promoting use and limiting abuse

It should be easier for the rights to be used and defended on the one hand and for any abuse to be corrected on the other. Exploitable ideas should not lie dormant. We recommend:

- an improved right to have a <u>patent re-examined</u> to be modelled on a new US right which offers an expeditious way of resolving certain disputes without costly and lengthy proceedings;
- a more effective form of <u>compulsory licence</u> which is the principal way of liberating unused invention and curbing abuse of monpoly;
- a more thorough attention to the interests of British business in international discussions in particular over European Commission moves on anti-trust regulations and negotiations within the Paris Convention;
- new rights for employee inventors to allow them to take over their own invention if the employer is not intending to exploit it.
- 6. Many of these recommendations will be more beneficial to individual innovators and to small, entrepreneurial companies than to the big battalions. But the latter are relatively more satisfied with the system and, where they are not, have the leverage to negotiate deals between themselves. Our proposals should widen the opportunities for the smaller companies who depend more on the domestic legislation.
- 7. Finally, though each of the individual measures above is desirable, taken alone they would not each command a high priority for legislative time. However taken together in one bill they could form the core of a coherent and forward-looking statement of Government policy on innovation and commercial awareness in this country. It would be highly relevant to the Government's policies for exonomic recovery. The themes of the statement would be the individual's role in the exploitation of ideas and the awareness of the value of the nation's intellectual property. We recommend:

an <u>Intellectual Property and Innovation Bill</u> - to bring together the new measures proposed in this report and to form the core of a major statement of policy.

INTELLECTUAL PROPERTY RIGHTS AND INNOVATION

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THE REMIT

The Prime Minister approved the following remit for a study of intellectual property:

In the general context of the competitiveness of British industry and the exploitation of innovation, the Chief Scientist, CPRS (now the Chief Scientific Adviser, Cabinet Office) is asked to examine:

- i. whether Government, directly or by the framework that it provides, adequately encourages awareness of the potential economic value of intellectual property both as a traded commodity and otherwise;
- ii. the different approaches to these matters by our major trading competitors and elsewhere, and whether there are applicable lessons for the United Kingdom;
- iii. whether the present structure for the protection of intellectual property, including legal rights and their enforcement, and the methods of Government policy forumulation, are best suited to the national interest both at home and abroad;
- iv. whether the present methods of protecting intellectual property are, on balance, well suited to encouraging exploitation;

and to make recommendations.

CHAPTER ONE

INTRODUCTION AND PERSPECTIVE

- 1.1 New products, new services and new manufacturing processes, no less than artistic works or scientific advances, have an idea as their origin. The idea may be the concept of a major invention, the accumulated know-how that allows an incremental advance, or the judgement that a certain shape will be appealing. If the idea can be recorded and defined in some way it becomes a property intellectual property which can be bought and sold and legally protected against uninhibited copying. The major forms of intellectual property protection are patents, registered designs, trade marks and copyright: a description of these is at Annex A.
- 1.2 Intellectual property rights are generally limited territorially. But our domestic law is being brought progressively into line with European practices. More widely, a number of international agreements, usually allowing for reciprocal rights, provide a framework for international co-operation. A description is also at Annex A.
- 1.3 The UK relies heavily on getting value from its intellectual property. We have a limited raw material base and a small home market. But we have a good education system, a tradition of world-leading inventions and of involvement in international trade. However our national strength in producing exploitable ideas will not benefit the UK unless we earn a return on them, whether they are exported as technology or developed first into products at home. The ability to claim ownership is a vital step in securing this return and is therefore an important area of national interest.
- 1.4 This report considers how far the current system of industrial property rights and obligations encourages that innovation which is capable of commercial exploitation and in particular that of small but enterprising firms. It does not go into the wider field of what general measures would best stimulate innovation.

The Context of Intellectual Property Rights

- 1.5 Before examining the present intellectual property regime on its own, we believe it is worth setting out more generally the distinct interests of inventors, producers and consumers and then describing the main ways in which these are reconciled.
- 1.6 The interests of all parties, and therefore of the nation as a whole, would appear to be served by encouraging the bringing of new products and manufacturing processes to the market. However interests can diverge over how this should happen and in the legal rights and monopolies involved. For example the inventor, insofar as he is not the producer:
 - wants the highest price possible for his invention and the credit for it, even if he may not be aware of its ultimate commercial potential;

The producer:

- wants ready access to new inventions which he can incorporate in his products in order to gain market advantage;

- wants to hold on to this advantage as long as possible against competitors capable of using the same invention;
- may want to delay exploitation of an invention until a moment of his own choosing (or even indefinitely).

The consumer on the other hand:

- wants a continuing flow of improved products at the lowest possible prices;
- to that end wants a wide dissemination of the state of the art on existing products and the potential for future ones so that continued product development is stimulated and consumer choice guaranteed;
- may not mind if the products derive from copying others' work.
- 1.7 The following are the main ways in which all developed countries create a legal regime or take other action in an attempt to strike a balance between the interests described above:
 - i. A product is brought to the market only because the producer has been able to keep the know-how behind it <u>secret</u> and thus hidden from potential competitors and copiers. Employees can be bound by the <u>law</u> of confidence.
 - ii. The parties involved establish their respective rights and obligations by a formal contract. Examples are know-how and confidence agreements which place obligations on customers, and licensing arrangements, all enforceable in law, by which an innovator allows others to manufacture a product for a fee.
 - iii. The public authorities may intervene:
 - a. by the granting of monopolistic <u>legal protection</u> to the innovative idea. The protection is usually limited for a period of time, protected from abuse and subject to disclosure so that incentives are given to innovators but consumer protection from long term monopoly profits is also established. This is the essence of intellectual property rights.
 - b. by a subsidy to the producers of innovation so that the chances of the new products' wide public availability are enhanced;

The Case for Intellectual Property Rights

- 1.8 A system of intellectual property rights should encourage new products and processes to reach the market and bolster the trade in ideas. That a system based on the principles in 1.7 iii. a. should meet these objectives, sounds plausible in theory. It should provide adequate benefits and protection for all the parties as follows:
 - i. Where R&D costs are high, the inventor and producer (whose combined role we call that of the <u>innovator</u>) would not make the original investment if an imitator could immediately scoop the market with cheap copies.

- ii. Even if R&D costs are not particularly high, innovative small businesses, which do not have the legal resources, manufacturing power and dominant marketing capability of the large firm, need protection. They would be hit particularly hard if their only asset, product innovation, could immediately be copied and sold at a punitively low price, cross-subsidised from other products.
- iii. The consumer's interest is served by disclosure. Without intellectual property rights there would be both a clear disincentive to invest in the more expensive forms of innovative research and more reliance on commercial secrecy. The latter would contribute towards the duplication of research effort. By requiring disclosure, the intellectual property system facilitates the exchange of information and encorages further invention.
- iv. Wider use of new ideas is encouraged by legally protected intellectual property which allows trade to develop on the basis of licences. Even large firms may baulk at the difficulty of exploiting fully a new market: Bell Labs did not attempt to monopolise the applications of the transistor. For small firms or private individuals, without the will or resources to produce and market their innovation themselves, the return on investment will often be dependent on licensing the intellectual property for use. Trade is likely to be encouraged most if the licence provides for royalty income (based on the incidence of use, on the profits, on sales, or some combination) rather than a once-for-all fee that has to be settled before the market is established.
- v. The consumer and competitor are shielded from the abuse of monopoly power both because monopoly rights are circumscribed and because intellectual property is not exempt from the application of the Restrictive Trade Practices Act or the Competition Act and investigation by the MMC.
- vi. For a <u>nation</u> which produces proportionately more good ideas than most countries but has a relatively small home market and has been less successful in the application of technology, the public good lies in trading products and ideas. It is therefore in the overall national interest that a strong world wide system of protecting intellectual property should exist.
- 1.9 It is possible to imagine an alternative one-sided legal scheme which gave much more protection to the innovator. However, establishing a legal regime which simply allocated ownership and gave unrestricted monopolies to intellectual property might well in practice stifle innovation by over protecting it, and would certainly be contrary to the consumer's and potential competitor's interests. In theory at least a balanced system of the kind described should avoid these pitfalls and should provide a good basis for encouraging a flow of new products. But the acid test as always must be how it works in practice.

The System in Practice

1.10 The available protection is widely taken up. The UK Patent and Trademark Office continues to receive a large number of applications each year: in 1981 some 39,000 for patents, over 6,000 for registered designs, nearly 21,000 for trademarks. These cover a broad technical front. Only patents show a decreasing trend over time which results largely from the rapid expansion of applications to the European Patent Office since it was set up in 1978.

- 1.11 The use made of patents once granted is difficult to measure. But a questionnaire to a number of UK firms carried out for the 1970 Banks Report indicated that some 30% of inventions for which the patent was still in force, were in direct commercial use. A US 2% sample survey of all patents issued in 1938, 1948 and 1952 showed that 50-60% of patents were utilized at some time during their life.
- 1.12 It is even more difficult to assess how much intellectual property rights contribute to the well-being and technical progress of the UK. They are only one way and not an easily identifiable way in which success in the market place can be achieved. Among many others are: the size and quality of R & D investment; the lead time of product development; marketing skills; and the reliability of products. It is therefore important not to overstate the role of legal rights on their own, they are part of the whole, complex, innovation process.
- 1.13 The use of intellectual property right varies greatly between industries as the following examples show:

Pharmaceuticals - expensive R&D, long development times, long product life, world-wide markets. Patents and trademarks are held to be essential for investment.

Consumer electronics - fast moving and fast expanding, manufacturing capability and marketing dominate, patents less relevant. Cost of patent protection comparable to cost of invention. Instead of patents, manufacturers have relied for such protection as they have felt necessary on trade mark registration, on contractual confidence agreements and in keeping the invention secret.

Aircraft jet engines - very difficult technology needing advanced and specialised manufacturing ability and design staff; few purchasers; capability and proven reliability more important than intellectual property rights.

Our approach

- 1.14 Overall, our look at the system and our discussions suggest that, with some exceptions, it is not in need of fundamental overhaul. We have also borne in mind that there exists an international system, which it does not lie in our power to dismantle should we wish to introduce a completely different approach. We have therefore concentrated in this report on assessing whether there are practicable changes which might enable the system to be better used to foster innovation. In particular we have looked at the way it helps small businesses. They operate proportionately more on the national scene than larger companies but are less well served. The next Chapter sets out the framework of our analysis to find such improvements.
- 1.15 The recommendations concentrate on the large-scale features of intellectual property rights and relate to industrial innovation rather than issues such as the moral rights of artists and performing rights. There are other, though more specific, areas where problems may be occuring such as with computer software. We have not attempted to go into the details. By and large the issues are known to the professionals and are being discussed. The Government's views on some of them are awaited as an outcome to the green paper (Cmnd 8302) on reform of the law relating to copyright, designs and performers' protection. The recent report from the Government's

Information Technology Advisory Panel (entitled Making a Business of Information, HMSO, September 1983) has also drawn attention to the crucial importance of copyright legislation to future economic activity based on the information industry. However there are three specific areas that we believe are being relatively overlooked: - protection for biotechnology, protection against counterfeiting, and variation in the patent term. An outline of the problems is given in Annex D.

CHAPTER TWO

OBJECTIVES

2.1 We look at three main sets of issues in considering whether modifications to current policy would increase the contribution which intellectual property rights and obligations make to innovation.

Awareness

2.2 The first set of issues concerns the awareness and use of intellectual property. Unless there is a proper appreciation of the value of intellectual property as a resource, unless there is easy access to the existing state of the art, unless companies are interested in expanding intellectual property trade, a carefully constructed and balanced system will avail little.

- 2.3 Chapter Three therefore discusses changes:
 - i. to improve the image of intellectual property;
 - ii. to make the system more penetrable to non-experts;
 - iii. to simplify use of the system in Europe.

Coverage

- 2.4 The second set of issues concerns the coverage of intellectual property rights and obligations. We examine whether the legal protection available, particularly by comparison with that enjoyed overseas, adequately meets the needs of British businesses small but enterprising companies as well as the big companies. Rights should exist for those areas where protection may be crucial for commercial exploitation and where success is important for the UK's economic future. On the other hand the degree of protection offered should not be higher than is needed. It follows that not all intellectual property should receive the same kind and amount of protection but that any discrepancies should be clearly justified by the nature of the product and its market.
- 2.5 To meet these objectives Chapter Four discusses changes to the present arrangements:
 - i. to extend the system to cover a wider range of intellectual property;
 - ii. to achieve greater consistency in the way the system applies to some elements of intellectual property.

Use and abuse of rights

- 2.6 The third set of issues relates to the ease with which in practice the rights can be used and abuses corrected. The rights should be sufficiently accessible and easy to defend against unfair allegations so that even small businesses are prepared to use the system. At the same time the monopolistic aspects of intellectual property rights should not be abused in order to lock in inventions and prevent their commercial exploitation, by the inventors themselves and by others, and to keep out legitimate competition. Exploitable inventions should not be left unexploited. Any changes in the international system to deal with monopoly abuse should not harm the legitimate interests of UK businesses.
- 2.7 Chapter Five therefore discusses changes:
 - to make it less expensive and complicated for the innovator to defend his property rights;

- ii. to enable the newcomer on the market or other competitor to challenge more effectively abuses of property rights;
- iii. to enable proper attention to be given to our industrial interests in international and European discussions;
- iv. to expand the opportunities for employee inventors to exploit their unused inventions.

CHAPTER THREE

AWARENESS, ACCESSIBILITY AND USE OF INTELLECTUAL PROPERTY

3.1 In the next two Chapters, we shall make recommendations for changing the system of intellectual property rights so that its contribution to innovation may be enhanced. But little will be gained unless the system is so organized that those who are able to make use of it in an economically valuable way are encouraged to do so.

Awareness

- 3.2 The Government devotes considerable resources to encouraging innovation generally. This contrasts with the lack of priority given to intellectual property issues.
- 3.3 The DTI and MAFF encourage innovation by supporting information services, free consultancies, technology transfer schemes, and awareness programmes. They are marketed with professional advice; advertisements in national newspapers and trade journals are used extensively. Considerable effort is made to smplify the accessibility of the schemes and the entry requirements, and to reduce the form filling and time involved in government decision making. Regional offices, brokers and attractive publications are used. Competitions and other projects are directed at school children. In addition, the Government invests large resources and devotes imaginative marketing to increasing the quality of industrial and commercial training. This is an investment in one aspect of the nation's human capital; the inventiveness of people and their ability to exploit the ideas of others are equally important parts of the same resource but one which has been relatively ignored.
- 3.4 The comparison with intellectual property is stark. The procedures for receiving and defending a patent are still perceived by users to be cumbersome and slow. The offices are old and with poor facilities. Official pamphlets giving advice on patents, trademarks and registered designs tend to be densely written and full of jargon, although there have been recent improvements. Where initiatives to encourage inventions are taken they can miss the point; national competitions for innovation too often focus on, and appear to prize, the clever invention and not its exploitation. In the private sector, the patent agents have developed a monopoly of advice which demonstrates some of the worst aspects of professional restrictive practices. Entry to the profession is limited; costs are kept high; the emphasis is on defensive work rather than exploitation. Overall the impression given is of an arcane world rather than that of modern technological Britain.
- 3.5 As a result of this attitude there are many examples of a lack of awareness of the most basic benefits to individuals and business of intellectual property protection:
 - academics freely exchange information, nationally and internationally, and too rarely talk to prospective commercial partners or take protection first. Exploitation is too often felt to be the business of someone else such as the BTG. As a result, some major British developments have been exposed, without protection, and have in effect become a free gift to overseas business. Monoclonal antibodies, a key development in biotechnology, is one recent example;

- staff in government research establishments too often judge the research outcome solely on its utility for the problem in hand and not on its wider exploitability; there is no individual responsibility for seeking commercial outlets;
- school children are encouraged by teachers to copy computer software with no thought to copyright. They are also given little encouragement to document their own software and see it as a potentially exploitable product. School children can produce as original good ideas as adults.
- 3.6 Businesses are generally more astute but in small business the protection of intellectual property is too often seen as something for larger companies; sometimes with disastrous results, for example, if the market, once established, is then swamped by an unrestrained copyist. Any procedure that needs money and the time of senior management is proportionately more of a burden for a small business than a large one. Hence patents are regarded as expensive and low on the priority list when struggling to bring a product to the market. Yet small businesses may in fact most need protection for their intellectual property. It may be the only market power that they have, whereas a larger company may have greater manufacturing and financial capability and an established position in the market.
- 3.7 Other countries tackle the awareness of intellectual property in different ways. The <u>USA</u> has decided that the best way to encourage the exploitation of publicly funded research in the universities, for example, is to give them the direct responsibility. There is no state-funded agency such as the BTG. The universities are free to take title in intellectual property and have a duty to seek commercialisation by whatever means they wish and with no levy on profits back to Government. In <u>West Germany</u>, as described in paragraph 5.30 below, employee inventors have rights to take over the exploitation of their ideas if unused by the employer. There are "petty" patents available (para 4.7 below) which are particularly helpful to individuals and to small business. The <u>Japanese</u> encourage innovation from an early age. "Junior Inventors Clubs" are formed for school children. Companies parade lists of patents as demonstrations of technological capability. Employee suggestions for innovation are taken seriously and patented wherever possible, even if the chances of commercialisation are remote, in order not to dampen enthusiasm.
- 3.8 Action by the British Government to improve the accessibility and awareness of the intellectual property system must concentrate on three key features.

First, the Government must change its own habits. This means that the Patent Office should be freed from civil service constraints and allowed to be more responsive to the needs of innovators.

Second, the Government should give more weight to the importance of intellectual property when designing its programmes for aid to industry.

Third, the property rights systems should be as accessible as possible.

A statutory body

3.9 We envisage a Patent Office which has a good deal of flexibility and responsibility for its own organisation but which also has a significant involvement by the user community in its management (this involvement is, in effect, nil at present). It would be encouraged to engage in a vigorous marketing campaign for the virtues of intellectual property rights and how to use them. The skills brought to selling many of the Manpower Services Commission's programmes show what can be done.

3.10 At present the Comptroller of the Patent Office has statutory powers awarded by Parliament but the office is a branch of the Department of Trade and Industry. As a result, staff conditions of service, manpower totals, investment programmes in premises and office technology, publications policy, links with private sector organisations, etc are all subject to the regulations and constraints of the civil service. But, notwithstanding the quasi-judicial nature of part of its work, the Patent Office is essentially providing a commercial service that is financially self-suporting. If a mechanism were in place, its customers would be able to articulate demands for improvements in its service, which they could pay for by appropriate fees. But at present the Patent Office cannot, in practice, respond.

3.11 Moreover, as the individual decisions on the award of property rights are within the jurisdiction of the Comptroller and not the Secretary of State, a clearer severence of the day-to-day activity from the Government's policy function seems desirable.

3.12 Even within Government, improvements to the service have been identified. A Rayner review of the Patent Office in 1980 made recommendations which included relocation to new buildings and the much greater use of information technology. As yet neither of these has been achieved and the Patent Office has little sway over whether they ever will be. There are shortages of technically-educated staff which could be remedied by variations in the current pay and conditions of service. Experienced administrative staff cannot be held because of the normal Civil Service practice of mobility for "general" administrators.

3.13. All the above arguments lead us to propose that the Patent Office should become a separate statutory body. There already exist such bodies as the Civil Aviation Authority, which grant monopoly rights and regulate them. The Patent office should be similarly free to provide the level of service that industry wants from it and to determine its resources accordingly. It should be financially self supporting from fees income. It should be free to finance investment programmes such as in computerised information handling. Not only would such independence remove the total activity, with any increase, from the Exchequer, it would allow the Patent Office to be less shackled in other areas. It could develop its role as an active advocate for the value of the intellectual property system as well as providing a specific service. Most importantly, it would involve the user community in its management.

3.14 Role of the Department - The Secretay of State should retain the power to issue directives to the Patent Office. The Department of Trade and Industry should continue to have a small policy group within it as a focus for discussion of intellectual property matters within Government and as the sponsor of the new statutory body. That group should be responsible for

formulating the UK line on domestic and overseas issues and for assembling delegations to overseas conferences. They would lean heavily on the support and services of the Patent Office, but the Department would have the responsibility for the Government line and for ensuring that industry was consulted. The policy group would provide the Secretariat for the Whitehall Liaison Group (recommended in paragraph 3.35) which would bring the views of other Departments into the discussion of intellectual property issues.

- 3.15 External advice The new statutory body should have a management board, appointed by the Secretary of State, mainly composed of representatives of the user communities. Detailed and specialist advice on patents, designs, and copyright matters, and on the service to applicants, would be taken from standing advisory committees as at present (see Annex A). The task of the management board would be to consider the resource implications of the advice and to sanction the Comptroller's programme.
- 3.16 An important function of the board would be to seek value for money on behalf of the customers and therefore to set and monitor efficiency targets. The board would also recommend new fee structures and levels but power to approve them should lie with the Secretary of State. (However fees should be settled by a directive from the Secretary of State and without the need to make an Order in Council as under current legislation). In selecting the membership of the board and committees, the Secretary of State should ensure that the interests of innovative business, small as well as large, were adequately represented. Hitherto, patent agents and other professionals have dominated the advisory mechanisms.
 - 3.17 WE RECOMMEND that the Patent Office should become a separate statutory body with a management board and advisory committees appointed by the Secretary of State for Trade and Industry, who should retain the power to issue directives and set fees.
 - 3.18 WE RECOMMEND that the Patent Office should undertake an imaginative marketing exercise designed to sell the importance and value of intellectual property.

Industry-aid programmes
3.19 Government should bear in mind the importance of intellectual property when reviewing and amending its programmes for aid to industry. The objective should be to ensure that advice on the methods of protecting or exploiting intellectual property (and, where appropriate, grants to defray the expense of protection) are no less available than advice and assistance for other investment in innovation. The overall cost, including patent agents' fees, for a straight forward (uncontested) UK patent is approximately £2,000. A bundle of patents acquired through the European Patent Office costs three times this. Reasonable world-wide coverage comes to about £20,000.

3.20 <u>WE RECOMMEND</u> that DTI should systematically review its aid and advice programmes with a view to increasing the support given to those who use the intellectual property system.

The professional monopoly

3.21 Access to intellectual property rights is strongly influenced by the professionalism of patent agents and lawyers. Both groups have restrictive practices which raise the cost of the system to the user. On many occasions it is doubtless necessary and appropriate for those seeking to use the system to engage professional assistance. But, as with the conveyancing monopoly of solicitors, there are strong arguments for and against the Government encouraging a monopoly of costly advice.

- 3.22 At present, individual inventors can prosecute their patent applications directly with the Patent Office (and Patent Office staff do give considerable assistance though that is reducing markedly due to resource constraints). However the Comptroller can refuse to recognise other people acting on an inventor's behalf. Registered patent agents are recognised, others acting for gain are almost totally banned. There is a consumer protection point here; unwitting inventors could lose their property through poor advice. It is also easier and less costly for the Patent Office to deal with examined and registered professional agents.
- 3.23 However the monopoly of representation given to patent agents goes against a desire for wider access to property rights and price flexibility. It also keeps out those exploitation brokers who could handle patent matters quite competently and also give attention to the crucial matter of raising development finance. Patent agents have no expertise here and merely reinforce the legalistic aspects of property rights. Exploitation can be stifled at this level and competition amongst those seeking to act for inventors, particularly for small businesses, seems desirable.
- 3.24 Moreover, our proposals in Chapters 4 and 5 are designed to provide a simpler system of patent protection (two-tier patents) and resolution of disputes (right of re-examination) for many users of the system. In normal circumstances these mechanisms should reduce the need for assistance from registered patent agents. There is a case for reviewing the justification for the professional monopoly itself.

3.25 WE RECOMMEND -

- i. that policy on intellectual property rights should aim to reduce the need for reliance on professional advice.
- ii. that the case for the monopoly right of representation held by patents agents should be reviewed.

A national database 3.26 The report has so far concentrated very largely on the position of inventors and those who directly exploit inventions through licensing agreements. But the system can in addition be used as a database for market and commercial intelligence. Patent and registered design applications are always published by the Patent Office and provide a detailed insight into who is developing what products, in collaboration with whom, when Much of the information in patent applications particularly and where. relating to new technologies, is not published anywhere else. Studies show that firms using the patents database in this way believe that they derive substantial benefits. The subject classification of patents is one that is easily accessible to these users and the task of going through patent applications to pull out relevant information does not require a highly either a member of the research department of a specialised patent agent: firm or the use of an online commercial service, is all that is necessary. CONFIDENTIAL

3.27 This national database is not well used. Governmental industrial advice and assistance does not stress its potential. The Patents Office is not expected to make a major effort in this area; nor does it have the resources to do so. Inquiries and sales of information at the Patent Office have remained static or declined in recent years. On the other hand, commercial firms now provide online services of patent specifications, and some consultancy services advise on their relevance to the particular market conditions of clients. The Rayner Report recommended that the Patent Office's role should be to organise itself so that private consultants could offer services based on the information it held. We agree. The Information Technology Advisory Panel's report, mentioned in paragraph 1.15 above, has as its main theme the need to pay more attention to information as a commercial commodity. Most of the report's conclusions could apply to the information held by the Patent Office.

3.28 The Patents Information Network of the Science Reference Library can be developed so as to provide a useful source of market intelligence to local businessmen. When public and private initiatives come together the results can be very successful. We were particularly impressed by the co-operation in Newcastle between energetic consultants and the local patent depositary library. The publicity material is imaginative and has led to good use of the library service by industry.

3.29 <u>WE RECOMMEND</u> that part of the awareness campaign recommended in 3.18 should be directed to making patents and registered designs as useful as possible as a national database. Particular attention should be given to cooperation by the Patent Office with private consultancies and the use of the local network of patent depository libraries.

Europe and the Community Patent Convention 3.30 For some users of intellectual property, an awareness of its potential within the United Kingdom market will be sufficient. But there is also an international system of intellectual property within which exporting companies have to operate. There is a need both to attempt to mould that system in our interests when possible, and to make our exporting industrialists aware of its potential and pitfalls. An example of what can happen when the institutional arrangements for making policy are not close enough to industry's needs is provided by the recent renegotiation of the Paris Convention described in 5.27.

- 3.31 Policy on European issues should be based on developing the EC as the home market for British goods. An important development would be the ratification of a Community Patent Convention which would take further the advantages already available through the European Patent Convention.
- 3.32 The European Patent Convention (see Annex A) allows the European Patent Office to undertake one central search and examination of a patent application such that a bundle of up to 10 separate national patents can then be awarded. After a short period to allow central oppositions, each national patent is then subject to the various laws of the individual nations. This can make for complexity and cost. Infringements, amendments or bids for revocation, for example, must be fought out under each of the separate and different legal systems. The Community Patent Convention, on the other hand, would provide for a single patent valid throughout the Community, awarded by the European Patent Office. The Convention was concluded in 1973 and signed by all the nine member states at the time, but problems of ratification and implementation remain.

3.33 The arguments in favour of implementation of the Convention - improving the internal market, promoting innovation, reducing the costs and simplifying procedures for application and redress - seem strong. The UK has one well-founded objection - relating to the role of national courts - but discussions to resolve this through a central specialist court are taking place. If one or two member states do not ratify the Convention in the near future, there may be case for going ahead without them. The Government does not appear to have given a very high priority to resolving the remaining objections to implementation.

3.34 WE RECOMMEND

i.that when developing policy on international aspects of intellectual property the views of British industry should be properly taken into account.

ii.that, because of the benefits to industry, the Government should press for early implementation of the Community Patent Convention.

Whitehall Liaison

3.35 Many of the concerns of this chapter - such as the failure to use the national database, the lack of thrust in international negotiations and the extent to which intellectual property is ignored in schemes of assistance and advice - imply that awareness and interdepartmental consultation in Whitehall on intellectual property is inadequate. There is a need for a forum where major policy issues would be discussed. This would bring the benefit of a wider view to deliberations within the Department of Trade and Industry's policy group. But, as important, would also demand that other Departments thought seriously about intellectual property rights. The lack of awareness of their importance to innovation and wealth creation is at its peak within Whitehall.

3.36 <u>WE RECOMMEND</u> that a Whitehall Liaison Group on intellectual property should be established; its Secretariat to be provided by DTI.

CHAPTER FOUR

COVERAGE AND CONSISTENCY OF RIGHTS

- 4.1 Under this heading we measure current practice against two objectives:
- The system should cover all areas where intellectual property rights would further the commercial exploitation of ideas to the benefit of the inventor and consumer alike. The small man's interest should not be ignored.
 - The system should be reasonably uniform so that comparable areas have a comparable mix of rights and obligations.

On coverage, we found that there were only two major areas which the UK - in contrast to many other countries - did not include in the national intellectual property system: provision for service marks and for a second tier of patents. On consistency, we found that there was one major anomaly where similar products received different treatment: mass produced products protected by registered design and those protected by design copyright. We make recommendations on both below.

Coverage: Service Marks and Two-tier Patents

Service Marks

- 4.2 In the UK, there is a system for registering trade marks for goods. This provides the trader with a legal title to the exclusive use of his trade mark for the registered product and thus gives him a business asset on which he can build goodwill and reputation. It enables the customer to identify goods for both the initial purchase and repeat orders. In the UK there is no similar system for registering marks for services such as banking or laundry. In 60 other countries, including most of our major markets, there is.
- 4.3 In the last Parliament there was a Private Member's Bill to introduce registration for service marks. This was opposed by the Government. We believe that the position should be revised.
- 4.4 There are strong arguments in favour of giving equivalent protection to services as to goods in the registration of marks:
 - i. The UK's share of national income from the service industries is increasing. The Government is actively encouraging certain service sectors eg telecommunications and information technology. To introduce service marks should support the Government's objectives in this area.
 - ii. Relying on common law in the event of one business passing off its services as those of another does not offer sufficient protection. Taking such action is expensive and difficult when compared with enforcing a clearly registered property right. Common law has not been considered sufficient protection for goods, hence the existence of trade marks, and there are further difficulties for services because of the uncertainties of extending common law rights out of the original area of trading in goods. It follows that service marks are at least as justified as trade marks.

- iii. All the industrialists we spoke to supported the establishment of a resistered service mark in the UK. The 1974 Mathys Report on Trade Mark Law and Practice reported unanimous evidence in favour of such a registration system and recommended in favour (we do not know why this was not acted upon at the time). It is difficult to assess in advance what the demand would be but Mathys said it would be substantial and the Patent Office estimates there could be 10,000 UK applications in the first year. In the US the proportion of marks for services initially was only about 1% of total registrations but by 1974 was some 19% of all marks registered. In France marks for services were between 14-15% of all marks registered in 1971. Germany brought in service marks in 1979. We were told that the take-up in practice, contrary to expectations, had been considerable 20,000 last year.
- iv. A Convention on Community Trade Marks is being negotiated. But implementation is a number of years off and British services need a system now. Without a national registration system it will be difficult to have the rights on unregistered UK service marks incorporated into the Convention and to stop foreign companies having pre-emptive priority dates on similar marks. It will also be easier for us to argue for a Community system aligned to the best interests of British business if we have had practical experience of a national system. It will also strengthen the UK's bid to have the new European Trade Mark Office located in this country.
- 4.5 The national interest in introducing service marks as outlined above is strong. The objection that some extra staff would be needed perhaps 40 if 10,000 applications a year are received should not be allowed to sink the proposal. The registration of service marks would be self-financing and paid for by those who use them.
 - 4.6 <u>WE RECOMMEND</u> that the registration of trade marks should be extended to services.

Two-tier patents

- 4.7 Currently in the UK it is not possible to patent inventions other than through the costly and time-consuming process of application for a full patent with its detailed examination for novelty and non-obviousness (see 4.9 below). In many other countries, including Germany, Japan, France, Italy and Australia, there is legislation that allows easier access to protection in exchange for a more limited form of protection. It is usually known as a "petty" patent or utility model. The distinguishing feature of these petty patents are that they last for a shorter period than ordinary patents, but are more easily obtained because they are not usually examined before award. But they do leave open the door to legal action if there is significant infringement (and if the market warrants it).
- 4.8 We believe that there is a gap in the UK system which may be inhibiting innovators, particularly the smaller companies, from exploiting their ideas commercially. Many companies operate only in the domestic market and do not need the greater certainty that a fully examined patent gives as the basis for seeking protection overseas. Many only need easy access to shorter term protection because the products which stem from their inventions have a short life time. Many do not want to go to the effort and expense of getting a full blown patent before it is clear that the invention is marketable. The result probably is that many inventions lie unexploited for lack of any protection. We have been struck by the fact that small businesses and those that act for

them are in favour of an easier system for giving limited protection. Patent agents employed full time in large companies are neutral if not hostile. The fact that industrial fora such as the CBI Intellectual Property Panel are dominated by these agents suggests that the small man's views have not hitherto been properly taken into account.

4.9 The possibility of introducing a petty patent in the UK has been looked at in the past, but not since the 1977 Patents Act. That Act strengthened British patents by introducing more rigorous requirements for absolute novelty (ie world wide) and a high level of non-obviousness (ie something which would not occur to any skilled practitioner in the subject) and therefore a more thorough examination in the Patent Office. It is this initial examination which is so time consuming for the applicant especially if he has an incremented invention for which it is hard to prove non-objousness. It is significant that prior to this the Johnson Report commented (cmnd 1808, 1962):

"The minority view put to us by the Chartered Institute of Patent Agents, the body most qualified to speak on this subject, was in favour of the introduction of a utility model system. The majority view was against it but only because [our underlining] the standard of inventiveness required in practice by the British Patent System is not high, with the result that protection is given to the kind of novel articles the Gebrauchmuster (ie petty patents) system protects. It was clear that this view would change if the standard of inventiveness were to rise to an extent which excluded utility models."

That is precisely what happened to the standard of inventiveness in the 1977 Patents Act with the result that the award of a patent, other than for the most outstanding inventions, became much more difficult.

- 4.10 The Banks Report (Cmnd 4407, 1970), which led to the new Patents Act, found against petty patents. It argued that foreign experience suggested the existence of petty patents would not necessarily diminish the work load on the Patent Office; that any system for granting monopolies even for a short period, without proper examination, was open to abuse; that as with any registration system there was always considerable doubt as to the extent to which such patents could be enforced; and that a second patent system would give rise to legal complications over what was capable of being protected by each. The Chartered Institute of Patent Agents did not accept these arguments.
- 4.11 The arguments in the Banks Report can be refuted as follows:
 - i.We have already argued in relation to service marks that an increase in the load on the Patent Office should not be a conclusive argument against change which fosters innovation and commercial exploitation. In any case the Patent Office can charge to recover its costs fully.
 - ii. Before any rights were asserted we would envisage that examination of the validity of the patent could be demanded. A registration system provides a simple and cheap form of initial protection and avoids the need to go through a thorough, and costly, examination for each application. But if there is a challenge or assertion of right, then the validity of the petty patent can be tested.

- iii. Legal complications over what would be capable of protection under petty and normal patents could be overcome by making clear that both would be available for the full range of patentable inventions.
- 4.12 We conclude that there is a strong case for introducing in the UK a system with the following features:
 - easy access to obtaining a property right through registration;
 - requiring defence of the validity of the patent only if it is challenged;
 - giving protection for a considerably shorter period than for a normal patent.

We attach, in Annex B, the outline of one possible scheme incorporating these features. We refer to it as the <u>Registered Invention</u> scheme. It is based on a model developed by the Chartered Institute of Patent Agents at the time of the Banks Committee.

4.13 WE RECOMMEND that a petty patent along the lines of the registered invention scheme (described in Annex B) should be adopted.

Consistency of Rights Across the Intellectual Property System: Design Copyright Anomaly

- 4.14 When an article originating in an industrial design, such as an engineering drawing, is manufactured in quantity it is automatically covered by copyright but only for 15 years rather than the 50 years plus lifetime of the ordinary copyright protection. This is known as design copyright.
- 4.15 Articles protected by design copyright, eg car exhausts, are in a privileged position in two respects:
 - i. The manufacturers can claim against the infringers a particularly severe form of damages, conversion damages, which are in effect based on turnover rather than on profits. The infringers are liable to such damages even when the products are purely functional and stem from ideas which are obvious. On the other hand, holders of registered designs for which ornamental but not functional articles are eligible and patentees can only claim damages based on the profits they have foregone by virtue of the infringement. Yet both these latter categories have to meet more rigorous requirements before gaining protection.
 - ii. Copyright protection is acquired automatically whereas registration and examination for validity are required for registered designs and for patents. As a result competitors may be uncertain whether a design copyright will be used against them especially as it can give such blanket coverage.

Moreover:

iii. Design copyright is not a form of protection available in any other country. Many have a specific unfair competition law which can be used against copying of manufactured articles but only when there is a proven case of economic damage to the original manufacturers. In some countries, registration rights are available for functional goods.

- 4.16 The major anomaly is therefore that functional goods can get 15 years of automatic protection which can result in conversion damages if infringed. Conversion damages are disproportionately large compared to that provided for other, often more novel and inventive, forms of intellectual property protection. It also creates an uncertain position for companies who reproduce articles such as spare parts even if they sell under their own name: because there is no registration they do not know their legal position until action is taken against them. The existence of conversion damages may look superficially attractive to the originator of the design. But in practice infringement action against competitors is likely to be very expensive as the latter will fight hard against such draconian damages. Small companies may even be inhibited from going ahead with production.
- 4.17 To correct this anomaly, it would be reasonable to prevent the application of conversion damages to design copyright. But that would not deal with uncertainty created by non-registration and it would leave us at variance with international practice. And if our proposal for Registered Inventions is adopted in the future, articles protected by copyright will be in an even more anomalous position. If there were a way of introducing a register of design copyright, two of the anomalies would be dealt with and the case law would but spare parts would continue to be seen as outside the main national and international systems for intellectual property. We believe therefore that design copyright should be replaced. Copyright would then be restricted to what it was originally intended for ie literary or artistic works.
- 4.18 Since we have a system for registering designs with an aesthetic novelty there is a case for extending the concept to articles deriving from designs with a functional novelty. The period of validity - a maximum of fifteen years - equates to that of design copyright which seems to have been adequate for the vast majority of cases. However, registration will clearly increase the work load on inventors and on the Patent Office. The increase could be considerable given the large number of spare parts which are currently protected by design copyright. But it may be possible to devise a notification scheme eg reference to the part number on the manufacturer's catalogue, which should be less onerous. This would have the additional advantage of only including goods in commercial production.

4.19 WE RECOMMEND that there should be further examination of the feasibility, particularly cost, of replacing design copyright with registered designs as the intellectual property right available for functional articles manufactured in quantity.

Summary of amended protection for patents and designs 4.20 Under our proposals, if the intellectual property were an invention (ie capable of many different embodiments but all clearly capitalising on the one original idea), then the inventor could apply for protection under a common procedure for patents and registered inventions. Before a year elapsed, the inventor would need to choose between prosecuting the invention as -

a patent

- possibly costly and lengthy full examination, but maximum certainty of having a defendable claim once granted; maximum possible lifetime of 20 years;

invention

or as a registered - quick and cheap award, giving a claim to legal rights should enforcement (and therefore examination) later be warranted by nature of infringement and the size of the market in question; period of protection limited to 10 years.

4.21 If the intellectual property were a design rather than an invention (ie the novelty resting in the actual shape), the designer would apply under a unified procedure for a registered design for up to 15 years protection. In so doing he would have to identify the novelty and distinctive features of the design either as -

an ornamental design

- aesthetically pleasing and distinct shape not determined solely by function;

or as a functional design - specified crucial dimensions and features which satisfy a given technical function; reference to submitted existing trade literature might be adequate if the distinctive features were identified.

CHAPTER FIVE

USE AND ABUSE OF RIGHTS

- 5.1 Under this heading, we consider whether more could be done to meet the following objectives:
 - it should be possible for all the parties involved to make use of the rights provided and to correct any abuses;
 - exploitable inventions should not lie dormant.

To this end, we looked first at the overall balance of the system for the enforcement of rights and the correction of abuse. We then looked at ways in which it might be made to work more effectively with a view to commercial exploitation to maximum national advantage. We make recommendations below on simplifying the testing of the validity of a patent; on making the system for granting licences against the wishes of the patentee - compulsory licensing - more effective; on pushing for agreement in the EC to pursue patent agreements only when they result in monopoly abuse in practice; for improving awareness of the implications of the developing countries' proposals on compulsory licensing in the Paris Convention negotiations; and on giving more rights to employee inventors over the exploitation of their inventions.

5.2 Most of the changes proposed will be of more use to small businesses and the individual than to the larger companies. The large companies have the resources, legal and otherwise, to cope with the present system and the bargaining power to conclude licensing deals between each other despite deficiencies in the system. We would not expect any of the changes to lead to significantly more litigation. On the contrary, the purpose is to make the legal framework more credible as a last resort and so to give the parties more incentive to reach satisfactory arrangements voluntarily. There may however be some test cases initially.

Civil versus Criminal Law

5.2 We considered briefly whether it was right that, with some exceptions, infringement of intellectual property rights was not a criminal act. The arguments for strengthening the prosecution process through use of criminal law are that intellectual property is a property like any other and is becoming increasingly important, that unlawful use is equivalent to theft and can deprive the owner of significant commercial benefit. On the other side, the current system, even if it does not in practice always work well, does provide a framework for satisfactory redress: the owner of a patent, trade mark or copyright can sue for civil damages and these are such as to act as a deterrent against infringement; he can also be granted, on the basis of prima facie evidence of infringement, an interlocutory injunction to stop trading by the other party; there is provision for the Comptroller General of the Patent Office to grant compulsory licences if the patentee is not using the patent. We concluded that use of the civil system could be facilitated and the legal processes simplified, and there was no need to have to further resourse to criminal law. The latter in any case was unlikely to resolve most of the current problems or lead to more commercial exploitation of intellectual property.

Tests of Patent Validity

- 5.3 There are many problems, particularly for the small firm, in litigation. Not only is it expensive costs in a simple case could be £5000-£10,000 to the winner and £50,000-£60,000 to the loser but it also takes up valuable managerial effort. The delays in reaching a final decision can mean that commercial opportunities are missed. All this helps to explain why nine out of ten intellectual property cases submitted to Counsel are settled before they reach court. In many other cases, the patentee is deterred from starting to pursue the infringer by the complexities and costs.
- 5.4 Simplification of the legal processes in general, and a reduction in the almost mandatory role of the legal professionals, is a requirement much wider than intellectual property. However it is possible to reduce one particular feature of intellectual property cases dispute about the validity of the patent through a specific simplification.
- 5.5 The alleged infringer nearly always disputes the validity of the patent and the majority of court cases have this at their core. The patentee in the UK cannot at present attempt to dissuade the infringer from pursuing the validity point expensively through the court by asking the Patent Office to reexamine the validity of the patent on the basis of submitted evidence. Nor can the alleged infringer challenge the validity of a weak patent in a simple non-adversarial manner. The US, on the other hand, does have provisions which might be adapted to the UK situation.
- 5.6 The US recently introduced an amendment to its patent legislation to allow anyone to request a re-examination of a patent at any time after grant (though it must be on the grounds of hitherto unrevealed prior art ie knowledge or use of the invention not identified at the time of the grant of the patent). If someone other than the patentee makes the request, the patentee is notified and allowed a little time in which to comment. Otherwise the whole procedure is ex parte and therefore non-adversarial. The US system is described at Annex C.
- 5.7 It is expected that one result of this new US procedure will be to help to resolve disputes expeditiously and without excessive legal cost before they reach the Court. If the US Commissioner for Patents upholds the patent on reexamination, that might well discourage the competitor from going to Court. Conversely if the competitor gets a verdict from the Commissioner that the patent is unsound, that might well discourage the patentee from fighting the case in Court.
- 5.8 We believe that a provision for ex parte re-examination of the patent would be of considerable help to the small innovator in the UK; and, departing from the US model, we would want re-examination to be able to include all evidence, not just hitherto unrevealed art. The applicant for re-examination would pay the full costs but this would be much lower than the current legal costs. Patent barristers and agents whom we have consulted are, perhaps understandably, unenthusiastic about such a change but admit that it would prevent many cases (estimates have been as high as 90%) proceeding further into the system.
 - 5.9 <u>WE RECOMMEND</u> that an ex parte right of re-examination be introduced.

Protection Against Patent Abuse: Compulsory Licences 5.10 There are several procedures for correcting various forms of patent monopoly abuse such as non-working, keeping prices high by deliberately restricting production, obstructing licensing deals. But these are virtually never used. We do not believe that this is because no abuse takes place but because the chances of first getting adequate redress and then turning it into a commercial success are heavily weighted against potential applicants. We suggest some adjustments which might shift the balance.

- 5.11 Patent agreements are not exempt from the UK law on restrictive trade practices, anti-competitive practices and abuse of monopoly power:
 - i. The Restrictive Practices Court can find that an agreement is contrary to the public interest and order that it should not be implemented.
 - ii. When the Monopolies and Mergers Commission (MMC) finds abuse of a monopoly which involves a patent, the Secretary of State may compel an alteration in the abusive practice by order.
 - iii. Following on from an MMC Inquiry, the Secretary of State may also request the Comptroller to provide "relief" from the abuse through the patent. This can take the form of an order cancelling or modifying restrictive conditions in patent licences or declaring licences under the patent to be available as of right.

However the patent terms and conditions cannot be amended except by the Comptroller. Thus the legal instruments by which abuse of the property right is curbed are found in legislation relating to property rights, but they can be activated by the use of competition law.

- 5.12 But these remedies, provided by the law on competition, have been little used in the field of intellectual property. There have been only one or two orders prohibiting patent agreements or demanding price reductions and the Secretary of State has never requested the Comptroller to amend the terms or conditions of a patent following a MMC investigation. The reasons for the apparent ineffectiveness of these remedies go beyond the remit of this report and into the field of competition policy in general. However, in these circumstances it becomes all the more important that those remedies within the Comptroller's own power and which companies themselves can activate, can be made to work. The most significant of these, especially for the small company, must be the right to grant a compulsory licence.
- 5.13 Three years after the grant of a patent any third party can apply to the Comptroller General for a compulsory licence on, broadly, the following grounds:
 - i.inadequate working in the UK;
 - ii. the UK demand for products based on the invention is not being met on reasonable terms. This can cover monopolistic prices;
 - iii unreasonable obstruction, including outright refusal, of licensing negotiations.

The Comptroller General has the right to determine whether the applicant's case is valid and the terms of the licence, including the amount of the royalties. He may grant an exclusive compulsory licence (exclusive even of the patentee) or a sole compulsory licence (preventing the patentee granting other licences).

- 5.14 Despite these procedures for compulsory licences, the use made of them also seems to be minimal. From 1977 to the present there have been 12 applications: one has been granted, six have been withdrawn and five are pending. We doubt that the procedures are such that the mere threat of invoking them has enabled small companies to get satisfactory deals in most cases.
- 5.15 The main reasons for this situation would seem to be:
 - i.three years later the market has often moved on and a compulsory licence will not help;
 - ii. the difficulty of proving to the Comptroller that the patentee is not taking some (however nominal) steps to work the patent to a reasonable extent;
 - iii. the potential applicant is reluctant to apply for a compulsory licence because he knows that the unwilling granting of a licence is unlikely to be accompanied by the know how essential for the working of the invention. The published patent might not, in practice, give enough information to duplicate the invention. (In theory, it is therefore deficient.)
 - iv. unless the compulsory licence is exclusive, the new licensee can find he is being undercut on the market by the patentee or another licensee;
 - v. The Comptroller General has discretion over the granting of compulsory licences and it is widely believed that he is wary of his staff becoming enmeshed in long cases because of resource constraints;
- 5.16 We believe it would be worthwhile to try to get the system for compulsory licences to work better. But if the rules were changed to allow for compulsory licences to be granted automatically for non-working, that would tend to drive the inventor to increased dependence on secrecy rather than on patenting. The result would be worse than the existing situation. We have therefore looked at half-way house solutions.
- 5.17 In the US, in cases where anti-trust legislation has been invoked to reduce strong anti-competitive practices, an exclusive compulsory licence, accompanied by the transfer of specified know-how, can be awarded to a competitor as part of the redress. In the UK there is no specific provision for compelling the patentee to transfer know-how but the Comptroller is empowered in a general way to determine the terms of compulsory licence. We should consider using this existing provision in the Patent Act for a more effective compulsory licence, including the transfer of know-how, in the event of anti-competitive abuse. We are aware that the big companies and multinationals would probably be hostile to any compulsory transfer of technology. But medium-sized and small businesses might support the measure.
- 5.18 The compulsory transfer of know-how might also be justified where licensing negotiations for unused patents are being unreasonably obstructed. Such obstruction can take the form of an outrageously high fee to the small licensee. This may occur because for the inventor, perhaps a big research establishment, the prospective licensing deal represents a small net present value in return for considerable work in defining and negotiating the relevant know-how. For the licensee, however, an effective compulsory licence, including know-how, could make all the difference for him in developing a new

product in a limited market provided that the patentee's licensing fee is not too severe a burden. But we recognise that before accepting the granting of such a licence the definition of what constitutes unreasonable obstruction would need to be refined. It might be fair to allow a patentee to withold the information which would enable a competitor to operate in the same market. But if the potential licensee were active in another sector - say civilian products as opposed to defence products - or in another geographical area, then the grant of an effective compulsory licence with know-how might be justified.

- 5.19 As at present, Crown establishments should not be excluded from any changes in the practice on compulsory licences. They employ over a quarter of the nation's R&D manpower and own a great deal of exploitable technology. The force of any changes would be weakened if they were excluded.
- 5.20 We do not expect or want our proposal to lead to any great increase in the number of compulsory licences granted. We hope that, after test cases, it will lead to a general belief that such licences are an effective instrument and that therefore patentees will be readier to grant satisfactory licences with the necessary know-how.
 - 5.21 WE RECOMMEND that the Patent Act should be used for the creation of more effective compulsory licences, including the transfer of know-how, in cases of anti-competitive or monopoly abuse and of unreasonable obstruction of licensing negotiations. Crown establishments should not be exempt from such licences.

EC views on Monopoly Abuse: Block Exemptions 5.22 On the European level, the Community's rules on competition owe much to the influence of US anti-trust laws and are considerably tougher on anticompetitive practices and monopoly abuse than our Restrictive Practices and Competition Acts. The Commission does not want property rights in patent pools and exclusive licensing agreements to be used to distort the market or to establish anti-competitive practices. In 1979 it issued a draft regulation, not yet agreed, which proposes the exemption in block of certain patent agreements from the competition rules in the Treaty of Rome (Article 85.1) but specifies provisions in patent agreements between larger firms which Industry has complained that the approach diswould not be allowed. criminates against big companies trying to use Europe as their home market, that a dynamic innovation policy requires the lack of restrictions on contracts and that the absence of an agreed and acceptable regime discourages new agreements.

- 5.23 There is some force in industry's arguments. But it is in the interests of small businesses, the consumers and the development of the international market generally that there should be some restrictions on cartels which cut out legitimate competition. We think it would be desirable to ask the Commissioners in charge of Competition, the Internal Market and Industry to make a concerted effort to break the log jam. A scheme which allowed intervention in cases of anti-competitive practices but did not require the registration of all licensing agreements might be possible: after all the UK provides for such a regime.
 - 5.24 WE RECOMMEND that the UK take the initiative in requesting the Commission to come forward with practicable proposals for reconciling measures to deter anti-competitive abuse in patent agreements with the legitimate interests of industrialists.

Paris Convention: Compulsory Licences

5.25 In the International Convention for the Protection of Industrial Property (the Paris Convention described in Annex A) there are limits on when a country can grant a compulsory licence if a foreign owned patent is not being worked in its territory. Patents are worked less in developing countries if only because of the comparative lack of technology and industrial capacity there. At the same time very few compulsory licences are applied for and granted, no doubt for many of the same reasons as obtain in the UK (paragraph 5.15 above). It is not therefore surprising that the most contentious discussions in the Convention's diplomatic sessions have been over the attempts by some developing countries to get the developed countries to accept revisions to make it easier to grant sole or exclusive compulsory licences (see paragraph 5.13 above). But the industrialised world's interests are in maintaining a strong international system which does not undermine the commercial possibilities for its industrial patentees. This should also be in the interests of the developing countries who, unless they offer acceptable terms, will forfeit investment from abroad.

5.26 It should be pointed out that this is not advocating one law for the rich and another for the poor. The improvements to the domestic compulsory licencing system that we have advocated in 5.21 above would be acceptable also in an international context. However some developing countries wanted to go beyond such provisions and make it very easy to, in effect, revoke a patent on weak grounds soon after grant and to allot the equivalent monopoly elsewhere. In paragraph 5.16 we rejected such a route for the UK.

5.27 In recent negotiations for a compulsory exclusive licensing regime, it took some time, even for our industrialists, to realise that some countries were bargaining for something additional to technology transfer through local working. They wanted to be able to cut out the original patent holder as an importer and to license an alternative monopoly importer. In many case the latter would be based in a country with less rigorous protection of intellectual property than in most developed countries. Ideas would be pirated and markets would be under-cut by manufacturers who did not have to bear the initial research and development costs. Extension of such a practice would be damaging to industrial development and to trade.

5.28 If there were a real threat to the continued existence of the Paris Convention as the generally accepted framework for international trade in intellectual property, that could be even more damaging to exporters. In recent international negotiations it was feared by some delegations, including the UK, that unless the developed world made a major concession on compulsory exclusive licences, the developing countries might reject the whole Convention. But our enquiries suggest there was never a real possibility of wholesale defection by developing countries since their interests would also be gravely damaged. The situation has been partially recovered by subsequent negotiations and a compromise which would allow reasonable scope for the original patent holder.

5.29 WE RECOMMEND that before and during any further negotiations of the Paris Convention there should be a careful analysis of the industrial interests at stake in the UK.

Employee Inventors

5.30 Whether or not there is exploitation of an invention by the company which owns it, the inventor himself may be the best promoter of his own invention. In the UK the employee has no right to take title in an invention and the employer has no obligation to protect the invention even if he exploits it. The law only states that the employee should be rewarded if one of his inventions is exploited to outstanding benefit by the employer. In Germany, if the employer does not take up the rights in the invention within four months, the employee is free to take title in it and exploit it. If the employer does exploit the invention, he has to reward the employee according to a defined scale and has either to take legal protection for the invention or pay compensation to the employee.

- 5.31 We believe that we should strengthen the rights of inventors along the German lines, but only in terms of ownership of <u>unused</u> invention. We do not propose formalising the system of reward for exploited invention. We accept that this might generate some problems:
 - the individual inventor might isolate himself from the research team to avoid sharing any reward or property rights entitlement;
 - resentment could build up between product development staff and pure research staff and between all technologists and other company staff;
 - the company may feel forced to embark on fruitless work on inventions in order to avoid yielding title to the employee.

On the other hand, we have to accept that while our R&D base is broadly comparable with our main trading competitors, we exploit it less well. We cannot afford to neglect a chance to encourage individual commercially-oriented enterprise in both the private and public sectors simply because this will cause difficulties to the R&D manager. A less cosy and more commercially aware environment may be all to the good.

5.32 WE RECOMMEND that employee inventors be given rights to take title in their inventions which are not being exploited by their employer.

CHAPTER SIX

IMPLEMENTATION AND RECOMMENDATIONS

6.1 The preceding chapters have recommended a number of changes to the intellectual property rights system. Recommendations are addressed to the rights that are available, to the way they are used and the way abuse can be curbed, and to increasing awareness of their value. We have argued that such changes would, if well promoted, help to improve access to property rights and to induce more commercial awareness amongst those generating new ideas. But there are two issues concerning implementation that must now be considered: public sector resources and legislation.

Resources

- 6.2 To implement many of the advocated changes would involve extra resources, particularly staff, within the Patent Office. For example it has been estimated that 40 extra staff would be needed to cope with service marks. The increase in the number of civil servants, even though they could be paid for completely by fees, would be unwelcome to Government. It is a potential hurdle to otherwise desirable progress.
- 6.3 A way round must be found. Protection of intellectual property is an important step in the commercialisation of ideas. Industry cannot provide that protection for itself. The conferment of temporary monopolies and their regulation is a function of Government or its own agencies, but we believe that there is a better solution than simply increasing the number of Department of Trade and Industry staff. In chapter three we have advocated making the Patent Office a separate statutory body, mainly on the grounds of responsiveness to what the customer community needs. If the responsiveness needs extra staff, and the proposed management board (representing the users) is content, then the resources should be found from fees income.

An Intellectual Property and Innovation Bill

- 6.4 Establishing the Patent Office as a statutory body would need primary legislation, as would many of the other recommendations. The strength of the case for some of them, such as for service marks, has already been established within Government independently of this report. The demand for some of the other changes has not yet been acknowledged in the same way. Each of the individual measures are desirable but, taken alone, few could probably command a high priority for legislative time. However taken together we believe that they would be the basis of a major statement of Government policy on innovation and commercial awareness in this country.
- 6.5 The theme of the statement would be that those with ideas should be encouraged to take responsibility for starting the exploitation of them, rather than leaving it to third parties. For example, employee inventors should have the ability to take rights on their unexploited ideas; Registered Inventions should allow a more accessible form of protection that might be particularly helpful to small businesses; improvements to the law on compulsory licences should lead to more voluntary licences on under-utilised ideas. The stimulation of such a commercially aware culture in the UK is intimately tied up with an awareness of the value of intellectual property and its conversion into a tradeable commodity by adequate definition and protection. Government policy making must take this into account and give adequate priority to it. A new bill based on the measures we propose could be at the centre of a new approach. It would be highly relevant to the Government's policies for economic recovery.

6.6 WE RECOMMEND that the Government consider an "Intellectual Property and Innovation Bill" to deal with the new measures and to form the basis of a major statement of policy.

6.7 COMPLETE LIST OF RECOMMENDATIONS

The Patent Office: we recommend that:

- 1. the Patent Office should become a separate statutory body with a management board and advisory committees appointed by the Secretary of State for Trade and Industry, who should retain the power to issue directives and set fees (3.17)
- 2. the Patent Office should undertake an imaginative marketing exercise designed to sell the importance and value of intellectual property (3.18):
- 3. part of the awareness campaign recommended above should be directed to making patents and registered designs as useful as possible as a national database. Particular attention should be given to cooperation by the Patent Office with private consultancies and the use of the local network of patent depository libraries (3.29).

Role of Government: we recommend that:

- 4. a Whitehall Liaison Group on intellectual property should be established, its Secretariat to be provided by DTI (3.36);
- 5. the DTI should systematically review its aid and advice programmes with a view to increasing the support given to users of the intellectual property system (3.20);
- 6. when developing policy on international aspects of intellectual property, the views of British industry should be properly taken into account (3.34.i);
- 7. because of the benefits to industry, the Government should press for early implementation of the Community Patent Convention (3.34.ii);
- 8. the UK should take the initiative in requesting the Commission to come forward with practicable proposals for reconciling measures to deter anti-competitive abuse in patent agreements with the legitimate interests of industrialists (5.24);
- 9. before and during any further negotiations of the Paris Convention there should be a careful analysis of the industrial interests at stake in the UK (5.29).

New and amended intellectual property rights: we recommend that:

- 10. registration of trade marks should be extended to services (4.6);
- 11. a petty patent along the lines of the registered invention scheme should be adopted (4.13 and Annex B);
- 12. there should be further examination of the feasibility, particularly cost, of replacing design copyright with registered designs as the intellectual property right available for functional articles manufactured in quantity (4.19).

Use and abuse of rights: we recommend that:

- 13. an ex parte right of examination be introduced (5.9 and Annex C);
- 14. the Patent Act should be used for the creation of more effective compulsory licences, including the transfer of know-how, in cases of anti-competitive or monopoly abuse and of unreasonable obstruction of licensing negotiations. Crown establishments should not be exempt from such licences (5.21);
- 15. employee inventors be given rights to take title in their inventions which are not being exploited by their employer (5.32);
- 16. policy on intellectual property rights should aim to reduce the need for reliance on professional advice (3.25.i);
- 17. the case for the monopoly right of representation held by patent agents be reviewed (3.25.ii).
- 18. Finally, to pull the threads together, we recommend an "Intellectual Property and Innovation Bill" to deal with the new measures and to form the basis of a major statement of policy (6.6).

INTELLECTUAL PROPERTY RIGHTS - A MAP OF THE SYSTEM

- A.1 Intellectual property rights are the legal rights which result from intellectual activity in industrial, scientific, literary or artistic fields. This study is principally concerned with industrial property: that is the protection of inventions, trade marks and industrial designs which are capable of commercial exploitation and the repression of unfair competition. The protection of the first three have in common the granting of certain monopoly rights allied to disclosure. The repression of unfair competition is directed against acts of competition contrary to honest practices in industrial or commercial matters.
- A.2 There are no generally internationally accepted definitions of the various forms of industrial property but the following descriptions give their more common characteristics:
 - i. Patents A patentable invention is a new and non-obvious industrially applicable idea. A patent is the document issued by a Government office, which describes the invention and gives the patentee a right to take legal action against unauthorised use of the invention, called "infringement", for a number of years.
 - ii. Trade Marks A trade mark is a sign used by a manufacturer or trader to distinguish his goods from similar goods of other firms. A service mark (which does not exist in the UK) performs the same function for services eg for banks and laundries. Registration of a trade mark establishes a right to take action against infringement of that mark or use of one similar in connection with goods or services such that it would lead to confusion in the minds of the public. An unregistered trade mark can, in certain circumstances, be protected by a common law action for "passing-off".
 - iii. Registered Designs These establish rights on the ornamental visual aspects, ie other than purely functional aspects, of an article. To gain protection, the design must be novel.
 - iv. Copyright copyright is a form of intellectual property, that exists automatically in original literary, artistic or dramatic works, and gives protection against unlicensed use. Copyright started with literary work, but in this century it has been extended to deal with neighbouring rights, especially those of performers, effected by reproduction through modern technology. Of commercial importance has been the growth of industrial Design Copyright for three-dimensional articles, such as motor vehicle spare parts, which result from drawings and which may be purely functional.
 - v. Plant Breeder's Rights A protectable plant variety is one which is clearly distinguishable from any other varieties, which has not yet been commercialised, which is sufficiently homogenous and stable. The breeder's protection extends only to the production of reproductive material for the purposes of commercial marketing (not to the use of the protected variety as an initial source of creating other varieties) and to the use of the registered name for selling any other variety within the same class.

Award of Rights

A.3 Patent applications are made to the Patent Office. Publication of the patent specification (which is a description of the invention of sufficient detail that others skilled in the art could replicated it) automatically follows 18 months after the initial filing. There is first a preliminary examination and search, the result of which is published with the specification, and then a substantive examination to ensure that the invention involves a new non-obvious inventive step (ie which is not part of the published or freely known state of the art) and has an industrial or agricultural application. The period of exclusive right granted to the patentee, for manufacturing and using the invention, is up to 20 years, if the patentee pays the appropriate renewal fees. There are rules according to which the Comptroller General can order compulsory licensing if the patent has not been worked after a period of time. At any time a third party can apply, to the Patent Office or to a special Patents Court, for revocation of the patent, usually on the grounds that the invention was not new or was obvious.

A.4 For a <u>trade mark</u>, registration does not take place until the Patent Office (Trade Marks Registry) has carried out a thorough examination as to its suitability to ensure that it is distinctive, is not deceptive, and is free from conflict from registered trade marks of others. Opportunity is given for third parties to oppose registration. A trade mark registration can be maintained indefinitely by payment of renewal fees. The UK system is more thorough than many other countries which simply record registration.

A.5 For registration of a <u>design</u>, the application is examined for non-functional aspects, searches are made through previous registrations, the design is then registered and made available for public inspection. Protection takes effect from the date of application and may last, if renewal is applied for at five-yearly intervals, for a maximum of 15 years.

A.6 Copyright and so-called Neighbouring Rights such as Performing Rights are automatic and therefore do not need to be conferred or registered in anyway. In order to give notice that copyright protection is claimed, the practice of annotating a document, design, or whatever, with the name of the author, or owner, the date and an international copyright symbol has grown up. Copyright lasts for the period of the author's remaining lifetime plus 50 years. Design Copyright in three-dimensional articles is however restricted to 15 years, ie as with registered designs.

A.7 The controller of the Plant Variety Rights Officed under MAFF grants protection, varying between $1\overline{5}$ and 20 years, after establishing whether prior commercialisation has taken place and after official testing of the distinctness, homogeneity and stability of the product. The controller carries out regular tests thereafter and can revoke the rights should the variety lose its distinctiveness. Several Western European countries provide for similar testing and we have collaborative arrangements with them. The USA, and some other countries, grant Plant Patents, but the US does not provide for tests on a regular basis.

Enforcement

A.8 The normal method of protecting intellectual property rights in the courts is by civil action for infringement of the right. All the normal remedies are available; thus the owner can elect to sue for damages (discussed in more detail below) and seek an injunction to prohibit continued infringement. Injunctions are at the discretion of the court, but the effect of recent cases is to make it easier than formerly for interlocutory injunctions to be granted, on the balance of convenience, especially if substantial damage to the plaintiff is likely to take place and the defendent is unlikely to be able to recompense by way of damages.

Further changes to the procedure for protecting rights, especially against Copyright piracy and counterfeit goods, include the development of Anton Piller orders, now granted under the Supreme Court Act 1981. They allow a plaintiff to secure an exparte order to search for and take away copies of the protected item and other information. The orders operate before trial; on judgement it is possible for the court to grant an order to the plaintiff ordering the defendant to deliver up copies of the infringing articles, or destroy them.

A.9 In addition to remedies through actions for infringement or for breach of contract (where, for example, the owner of a right complains that a licensee has gone outside the terms of his license) some of the economic torts, in particular passing off, may be pressed into service. All these remedies depend on the individual right owner deciding to initiate proceedings.

A.10 Some protection of the rights is undertaken by public agencies. Customs and Excise Officers, if called upon, have special responsibilities in copyright, and trading standards officers have a role in protecting rights if their abuse is leading to illegal trading. The criminal law has a historical role in copyright, preserved by the 1956 Act. In practice there are few prosecutions for breach of copyright outside the special circumstances of piracy in the entertainment world. Although there is room for considering whether the criminal jurisdiction should be extended - perhaps by reducing the mental element required for certain kinds of illegality from knowledge to recklessness - enforcement of intellectual property rights must mainly depend on action in the civil courts.

International Aspects

A.11 The laws relating to intellectual property are generally concerned only with acts accomplished or committed in the country itself. There are two existing exceptions: The European Patent Convention confers a bundle of up to 10 national patents in the contracting states, which the applicant designates in a single patent application which undergoes a single search and examination procedure. A patent granted by the African Intellectual Property Organisation has the same kind of effect. The European Community Patent Convention, signed but not yet in force, would go one step further than the European Patent Convention by granting one European Patent valid throughout the area of the contracting states.

A.12 The European Patent Office (EPO), in existence since 1978 with its headquarters in Munich, is primarily concerned with processing applications for patents under the European Patent Convention. It is being used increasingly. When applications are filed, the EPO makes a search of the relevant state of the art and a report, which is published, is sent to the applicant to enable him assess the prospect of obtaining grant of a patent. If the applicant decides to proceed, the EPO carries out the substantive examination for novelty, inventive step and industrial application of the invention. If the examining division of the EPO considers the invention to be patentable it will decide to grant the European Patent (which comprises a bundle of national patents in the member countries), valid for 20 years from the date of application. The grant of the patent is notified to the public and a patent specification is published. Third parties may opposed the grant of a patent within 9 months after grant. Since this opposition stage came into operation in 1981 the percentage of European patents opposed has been surprisingly low but is expected to increase. Appeals against decisions of the various divisions of the EPO can be made to an impartial Board of Appeal. After the 9 months opposition period, all further actions including renewals, have to be carried out with the individual, national Patent Offices.

A.13 More widely, the general framework for international co-operation set by the 1883 Paris Convention drawn up to guarantee reciprocal possibilities for protection in the convention countries. Among the basic provisions are:

- i. the same protection for nationals of other contracting states as it grants to its own nationals;
- ii. the right of priority. Any person who has applied for protection in one of the contracting states enjoys a right or priority for twelve months for claiming similar rights in other countries.
- iii. compulsory licensing and revocation. A compulsory licence (a licence not given by the owner of the patent but by the public authority of the state concerned) may only be given pursuant to an application filed after 3 or 4 years of failure to work the patented invention in the state in the absence of legitimate reasons for inaction. This represents a careful balance and is the most contentious part of the Convention.
- A.14 Twelve special agreements have been concluded so far under the aegis of the Paris Union which generally fill out that first agreement. The one of most importance is probably the 1970 Patent Co-operation Treaty which provides for a system of international search and preliminary examination which facilitates the national examination process. The World Information Property Organisation (WIPO) is the UN specialised agency responsible for ensuring administrative co-operation among the various unions of states founded on the multilateral Treaties for dealing with the legal and administrative aspects of intellectual property. The UK is also party to the International Convention for the Protection of new Varieties of Plants, concluded in 1961 and last revised in 1978.

Government Advisory Bodies

A.15 The Department of Trade has two Standing Advisory Committee, to deal with patents and trade marks respectively. The membership is formally settled by the Department but it has agreed with certain organisations that they will nominate members. The Chairman of each Committee is however selected by the Comptroller of the Patent Office. For the Standing Advisory Committee on Trade Marks, the represented organisations are:

Chartered Institute of Patent Agents*

Law Society*

General Council of the Bar*

Institute of Trade Marks Agents

Incorporated Society of British Advertisers/Committee of Marketing

Organisations

International Chamber of Commerce (British Section)*

International Association for the Protection of Industrial Property*

Association of British Chambers of Commerce*

Trades Union Congress*

National Consumer Protection Council/Consumers Association/National Consumer Council

Trade Marks, Patents and Designs Federation*

Confederation of British Industry*

For the Standing Advisory Committee on Patents, the organisations marked with an asterisk above nominate representatives, together with:

Institute of Patentees and Inventors.

Previous Reviews

A.16 The most recent reviews of the relevant legislation were the Banks report (1970) on patents which lead to the 1977 Act, the Mathys report (1974) on trademarks, which did not lead to a published Government response, and the Whitford report (1977) on copyright which has lead to a consultative paper but no white paper yet. There was a Rayner study of the Patent Office in 1980.

OUTLINE FOR CONSIDERATION FOR REGISTERED INVENTIONS

- B.1 Inventions to be protected through Registration shall be in the same category as is provided for patentable inventions under the Patents Act.
- B.2 The formal provisions for applications for Registration, claim to priority, filing procedure and publication shall be the same as for patent applications and the official fee on a definite application for Registration shall be equivalent to that for a patent application with claims but not including an official search.
- B.3 A patent application may be used as a priority basis for a REGISTERED INVENTION, and vice versa. In practice there need be no distinction initially between a patent application and a REGISTERED INVENTION application. An applicant may elect, at the end of one year from filing, to proceed with a patent application or a definite REGISTERED INVENTION application.
- B.4 Provided that a patent application has not been rejected for lack of novelty, as distinct from obviousness, it may at any time up to grant be converted to a REGISTERED INVENTION and any official search report on the patent application shall be made of record on the REGISTERED INVENTION.
- B.5 Each application shall be registered without examination (apart from compliance with the requirements for documentation and information) but as an essential preliminary to any action under the Registration or at third-party request the Registration shall be formally examined and confirmed or removed from the Register. A decision for removal shall be subject to appeal to the Patent Court.
- B.6 At any time during the existence of a Registration anyone may file or request and pay for an official search report which shall be available for public inspection.
- B.7 The term of a REGISTERED INVENTION shall be initially 5 years from definite application, or from the filing date of a converted patent application, with renewal on payment of a fee for a further 5 years.
- B.8 The owner of a REGISTERED INVENTION shall have and be subject to the same rights and obligations as a patentee of a patented invention but exercisable only after the following stepts:
 - a. the Registration shall be formally examined and confirmed;
 - b. there shall be on file at the Patent Office a novelty search report by an officially recognised search authority;
 - c. an intending Plaintiff shall send to any intended Defendant written notice at least one month before initiating any action and such notice shall give particulars of steps a and b and an opportunity for the notified party to settle on terms which, in default of agreement, shall be determined by the Comptroller.

- B.9 In any action for infringement or revocation of a REGISTERED INVENTION is shall be a defence or a ground for revocation that the invention:
 - a. is not novel; or
 - b. does not involve any inventive step having regard to the state of the art at the filing date of the invention.

RIGHT OF RE-EXAMINATION

- C.1 The law on re-examination of patents in the USA (Public Law 96-517, December 1980) includes the following provisions:
 - i. Any person at any time after grant of a patent can submit evidence of prior art to the Commissioner for Patents.
 - ii. Any person at any time can request a re-examination of a patent on the basis of a submission on prior art. A copy of the request is sent to the patentee (if other than the person making the request) but he has no right to petition against the re-examination.
 - iii. Within three months, and without necessarily taking any further evidence, the Commissioner decides whether a substantial question of patentability has been raised. A copy of his determination goes onto the patent file. Copies are sent to the patentee and person requesting the reexamination.
 - iv. If the determines that \underline{no} substantial question of patentability is raised, the decision is final \underline{and} cannot be appealed against (though the question may still form part of a subsequent court action). This is equivalent to upholding the patent without further ado.
 - v. If the determines that there <u>is</u> a substantial question, then the patentee is given two months to comment and/or amend the patent specification and claims. The person requesting re-examination is notified of the comments and he has two months in which to comment on them. The patentee is notified.
 - vi. The Patent and Trademark Office re-examines the patent using the normal provisions for an original examination, in which the patentee can amend (but not extend) his patent and claims.
 - vii. The normal appeals mechanisms are available to the patentee.
 - viii. Finally, the Commissioner issues a certificate cancelling, amending, or upholding the patent.
- C.2 Thus, though the grounds of a request for re-examination are restricted to prior art (and the origins of the right are to compensate for the absence, in US law, of suitable opposition rights before grant of a patent), the proceedures have the benefit of a fixed timetable, and limited reference to the parties involved. There is only one round of comment. Neither the person requesting re-examination nor the patentee are required to answer the points made by the other. Once the time for this one round has elapsed no further evidence can be submitted and the proceeding is ex parte.

- C.3 The equivalent provisions in the UK Patent Act (1977) include the following:
 - i. In the period between publication and grant of a patent, any person can submit evidence on patentability. The patentee can amend (but not extend) his patent and claims.
 - ii. At any time after grant, the patentee can amend (but not extend) his patent and claims. A third party can register opposition to such an amendment. If validity is already at issue before a court, its permission is first required.
 - iii. After grant, there are no proceedings available for simply seeking a declaration of validity on the basis of hitherto unrevealed prior art. However an application for revocation can be made by a third party at any time (provided that the issues are not already pending before a court).
 - iv. Applications for revocation can only be made on the grounds of:
 - the invention is not patentable;
 - the patentee is not the only person entitled to register the invention;
 - the final specification extends beyond the original application;
 - an amendment should not have been allowed.
 - v. If the Comptroller refuses an application for revocation, an appeal against that decision cannot be made without a court's leave.
 - vi. Once an application is being determined, the issue cannot go to court without the patentee's leave or unless the Comptroller judges that the court is better able to deal.
 - vii. The Comptroller determines the issue on evidence submitted to him, in documentory form, but on an unlimited timescale and with adversarial proceedings allowing each point to be answered.
 - viii. If the Comptroller finds only limited invalidity, revocation will still take place if the patent is not suitably amended by the patentee.
- C.4 The adversarial proceedings can be protracted. Professional (and expensive) representation is needed. The Comptroller's decision does not prevent a dispute over validity being taken to court and, because the first round of costs in having the issue heard before the Comptroller are approaching those of a court case, there is very little point in going to the Comptroller first and still running the risk of having to pay again for a court case. As a result, applications for revocation are rarely made.

ANNEX D

OTHER POTENTIAL PROBLEM AREAS

D.1 The report has concentrated on the large-scale features of intellectual property rights (such as coverage, consistency, use and abuse) and has recommended changes that should make the rights better matched to the needs of innovators. However there are other, though more specific, areas where problems may be occurring, such as with computer software. We have not attempted to go into detail of such specific areas. By and large they are known to the professionals, such as patent agents and Patent Office staff, and specific adaption of the existing system could be made if felt warranted. The Government's views on some of them are awaited as a response to the Green Paper "Reform of the Law relating to Copyright, Designs, and Performers' Protection" (July 1981, Cmnd 8302). But the Whitehall Liaison Group (paragraph 3.35), should ensure that the issues are debated with an adequate emphasis on the extent to which innovating British companies (and hence consumers) will benefit.

D2. We draw attention to three particular issues that do not seem to be receiving adequate attention:

- i. coping with biotechnology;
- ii. action against counterfeiting;
- iii. variation in patent term.

New technologies - biotechnology

- D.3 The protection for micro-organisms initially caused problems for the patent system. Living organisms are difficult to isolate from nature and impossible to define adequately in a written specification. As a result, the disclosure necessary for patenting is carried out by depositing some of the actual oganism with approved culture collections, where third parties can examine and sample it. The European Patent Office does not allow unrestricted access to the sample in the period between first publication of an application and grant of a patent ("Rule 28"). There is a list of approved experts who are allowed to act on behalf of clients and examine the deposit but not carry away samples. If a patent applicationwere unsuccessful, the applicant would otherwise have completely given away his actual property (via the sample) rather than just a description of it (via a written specification). Once a patent is granted, direct access is allowed.
- D.4 The British Patent Office does not have the equivalent of Rule 28. There is unrestricted access after publication of the patent application. Companies involved in biotechnology have claimed that this is an over-legalistic attitude to the issue of disclosure and one which acts against the interests of British business.
- D.5 In the area of genetically manipulated plant varieties, there may be a problem just emerging. UK patents do not cover new plant varieties. Plant Breeders Rights (described in Annex A) regulate the trade in the means of propagation (eg seeds) but do not cover the products of plants. Thus flowers of a new variety can, for example, be imported freely into the UK even if the sale of the seed is restricted. This is a relatively weak form of protection but the industry seems content with it, at least as it applies to traditional growing methods and hybridisation. However new and much faster methods of developing plant varieties are becoming available through biotechnology. The plant products may be of industrial importance to the food, chemicals and pharmaceuticals sectors and there is the prospect that new industries can be founded on them.

D.6 The issue is whether British investment in reseach an development would be encouraged by protection more akin to that available through patents. The USA patent law is less exclusive and does allow "plant patents".

Counterfeiting

D.7 The small bright ideas man in the UK is at a disadvantage against foreign counterfeiting. He finds, for example, that his idea is stolen by an overseas manufacturer either acting on his own behalf or for another foreign company. He may have taken out a registered design or patent in the UK but he cannot afford to fight in the courts and does not have the clout to dissuade the infringer, even if he could trace him, by aggressive threats. The bigger company is more prepared to accept that counterfeiting is an unavoidable cost but in any case does have more resources to counter the overseas threat. However many good ideas seem to stem from the small man and unless some help is given, he will be discouraged. One such way might be a mutual insurance scheme with some Government backing.

Variation in patent term

D.8 It is not self-evident that the period of patent protection should be the same for all areas of invention. There are major differences in the scale of research and development needed for advance in difference subjects. The theoretical balance between the interests of the consumer and the producer could be set at a different level for some products by giving a shorter period of monopoly (as India does for food and medicines). Conversely for those products which are delayed from entering the market by lengthy Government regulatory procedures, (medicines again) the period of patent monopoly might be extended to compensate.

D.9 The most sustained case for a variable term is presented by pharmaceutical companies for patent term extension. They claim that regulatory procedures can halve the useful lifetime of a patent (ie after launch of a product into the market place). But a recent study by the US Congressional Office of Technology Assessment did not conclude that profitability and research investment by pharmaceutical companies had been seriously prejudiced. A higher price was charged over a shorter period. In the UK, the pricing agreements with the National Health Service have the dominant effect. But there are other industries which also require long regulatory and testing periods for new products. In these, such as engineering and construction materials, the market will not bear a significantly higher price because traditional, even though less satisfactory, alternatives are available. Desirable innovation, which could be widely applied, may be held back.

D.10 Our brief look at the issue indicated that it would be difficult for Government to decide on a differential system on objective and acceptable criteria. But the debate so far appears to have focused on the particularly contentious area of pharmaceuticals. There is a case for a wider look at the impact on innovation of variable term patents.