[(3) the term "made", when used in relation to any invention, means the conception or first actual reduction to practice of such invention.]

CONTRIBUTIONS AWARDS

SEC. 306. (a) Subject to the provisions of this section, the Administrator is authorized, upon his own initiative or upon application of any person, to make a monetary award, in such amount and upon such terms as he shall determine to be warranted, to any person [(as defined by section 305)] for any scientific or technical contribution to the Administration which is determined by the Administrator to have significant value in the conduct of aeronautical and space activities. Each application made for any such award shall be referred to [the Inventions and Contributions Board established under section 305 of this Act.] *an Inventions and Contributions Board which shall be established by the Administrator within the Administration.* Such Board shall accord to each such applicant an opportunity for hearing upon such application, and shall transmit to the Administrator its recommendation as to the terms of the award, if any, to be made to such applicant for such contribution. In determining the terms and conditions of any award the Administrator shall take into account—

(1) the value of the contribution to the United States;

(2) the aggregate amount of any sums which have been expended by the applicant for the development of such contribution;

(3) the amount of any compensation (other than salary received for services rendered as an officer or employee of the Government) previously received by the applicant for or on account of the use of such contribution by the United States; and

(4) such other factors as the Administrator shall determine to be material.

* * * * * * *

SECTION 6 OF THE ACT OF JULY 7, 1960

AN ACT To encourage and stimulate the production and conservation of coal in the United States through research and development by authorizing the Secretary of the Interior to contract for coal research, and for other purposes.

* * * * * * *

[SEC. 6. No research shall be carried out, contracted for, sponsored, cosponsored, or authorized under authority of this Act, unless all information, uses, products, processes, patents, and other developments resulting from such research will (with such exceptions and limitations, if any, as the Secretary may find to be necessary in the interest of national defense) be available to the general public. Wherever in the estimation of the Secretary the purposes of this Act would be furthered through the use of patented processes or equipment, the Secretary is authorized to enter into such agreements as he deems necessary for the acquisition or use of such patents on reasonable terms and conditions.]

such invention shall be the exclusive property of the United States, and if such invention is patentable a patent therefor shall be issued to the United States upon application made by the Administrator, unless the Administrator waives all or any part of the rights of the United States to such invention in conformity with the provisions of subsection (f) of this section.

[(b) Each contract entered into by the Administrator with any party for the performance of any work shall contain effective provisions under which such party shall furnish promptly to the Administrator a written report containing full and complete technical information concerning any invention, discovery, improvement, or innovation which may be made in the performance of any such work.

[(c)[1] No patent may be issued to any applicant other than the Administrator for any invention which appears to the Commissioner of Patents to have significant utility in the conduct of aeronautical and space activities unless the applicant files with the Commissioner, with the application or within thirty days after request therefor by the Commissioner, a written statement executed under oath setting forth the full facts concerning the circumstances under which such invention was made and stating the relationship (if any) of such invention to the performance of any work under any contract of the Administration. Copies of each such statement and the application to which it relates shall be transmitted forthwith by the Commissioner to the Administrator.

[(d)[1] Upon any application as to which any such statement has been transmitted to the Administrator, the Commissioner may, if the invention is patentable, issue a patent to the applicant unless the Administrator, within ninety days after receipt of such application and statement, requests that such patent be issued to him on behalf of the United States. If, within such time, the Administrator files such a request with the Commissioner, the Commissioner shall transmit notice thereof to the applicant, and shall issue such patent to the Administrator unless the applicant within thirty days after receipt of such notice requests a hearing before a Board of Patent Interferences on the question whether the Administrator is entitled under this section to receive such patent. The Board may hear and determine, in accordance with rules and procedures established for interference cases, the question so presented, and its determination shall be subject to appeal by the applicant or by the Administrator to the Court of Customs and Patent Appeals in accordance with procedures governing appeals from decisions of the Board of Patent Interferences in other proceedings.

[(e)[1] Whenever any patent has been issued to any applicant in conformity with subsection (d), and the Administrator thereafter has reason to believe that the statement filed by the applicant in connection therewith contained any false representation of any material fact, the Administrator within five years after the date of issuance of such patent may file with the Commissioner a request for the transfer to the Administrator of title to such patent on the records of the Commissioner. Notice of any such request shall be transmitted by the Commissioner to the owner of record of such patent, and title to such patent shall be so transferred to the Administrator unless within thirty days after receipt of such notice such owner of record requests a hearing before a Board of Patent

[1]These subsections continue in effect with respect to certain applications for patents filed or requested to be filed before the first day of the seventh month beginning after the date of enactment of this Act.

Administration, without reimbursement, aeronautical and space vehicles, and supplies and equipment other than administrative supplies or equipment;

(7) to appoint such advisory committees as may be appropriate for purposes of consultation and advise to the Administration in the performance of its functions;

(8) to establish within the Administration such offices and procedures as may be appropriate to provide for the greatest possible coordination of its activities under this Act with related scientific and other activities being carried on by other public and private agencies and organizations;

(9) to obtain services as authorized by section 3109 of title 5, United States Code, but at rates for individuals not to exceed the per diem rate equivalent to the rate for G–18;

(10) when determined by the Administrator to be necessary, and subject to such security investigations as he may determine to be appropriate, to employ aliens without regard to statutory provisions prohibiting payment of compensation to aliens;

(11) to provide by concession, without regard to section 321 of the Act of June 30, 1932 (47 Stat. 412; 40 U.S.C. 303b), on such terms as the Administrator may deem to be appropriate and to be necessary to protect the concessioner against loss of his investment in property (but not anticipated profits) resulting from the Administration's discretionary acts and decisions, for the construction, maintenance, and operation of all manner of facilities and equipment for visitors to the several installations of the Administration and, in connection therewith, to provide services incident to the dissemination of information concerning its activities to such visitors, without charge or with a reasonable charge therefor (with this authority being in addition to any other authority which the Administration may have to provide facilities, equipment, and services for visitors to its installations). A concession agreement under this paragraph may be negotiated with any qualified proposer following due consideration of all proposals received after reasonable public notice of the intention to contract. The concessioner shall be afforded a reasonable opportunity to make a profit commensurate with the capital invested and the obligations assumed, and the consideration paid by him for the concession shall be based on the probable value of such opportunity and not on maximizing revenue to the United States. Each concession agreement shall specify the manner in which the concessioner's records are to be maintained, and shall provide for access to any such records by the Administration and the Comptroller General of the United States for a period of five years after the close of the business year to which such records relate. A concessioner may be accorded a possessory interest, consisting of all incidents of ownership except legal title (which shall vest in the United States), in any structure, fixture, or improvement he constructs or locates upon land owned by the United States; and, with the approval of the Administration, such possessory interest may be assigned, transferred, encumbered, or relinquished by him, and, unless otherwise provided by contract, shall not be extinguished by the expiration or other termination of the conces-

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ACT OF 1958

* * * * * * *

TITLE II—COORDINATION OF AERONAUTICAL AND SPACE ACTIVITIES

* * * * * * *

FUNCTIONS OF THE ADMINISTRATION

SEC. 203. (a) The Administration, in order to carry out the purpose of this Act, shall—

(1) plan, direct, and conduct aeronautical and space activities;

(2) arrange for participation by the scientific community in planning scientific measurements and observations to be made through use of aeronautical and space vehicles, and conduct or arrange for the conduct of such measurements and observations; and

(3) provide for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof.

(b)(1) The Administration shall, to the extent of appropriated funds, initiate, support, and carry out such research, development, demonstration, and other related activities in ground propulsion technologies as are provided for in sections 4 through 10 of the Electric and Hybrid Vehicle Research, Development, and Demonstration Act of 1976.

(2) The Administration shall initiate, support, and carry out such research, development, demonstrations, and other related activities in solar heating and cooling technologies (to the extent that funds are appropriated therefor) as are provided for in sections 5, 6, and 9 of the Solar Heating and Cooling Demonstration Act of 1974.

(c) In the performance of its functions the Administration is authorized—

(1) to make, promulgate, issue, rescind, and amend rules and regulations governing the manner of its operations and the exercise of the powers vested in it by law;

(2) to appoint and fix the compensation of such officers and employees as may be necessary to carry out such functions. Such officers and employees shall be appointed in accordance with the civil-service laws and their compensation fixed in accordance with the Classification Act of 1949, except that (A) to the extent the Administrator deems such action necessary to the discharge of his responsibilities, he may appoint not more than four hundred and twenty-five of the scientific, engineering, and administrative personnel of the Administration without regard to such laws, and may fix the compensation of such personnel not in excess of the highest rate of grade 18 of the General Schedule of the Classification Act of 1949, as amended,

(b) The Commissioner may waive the payment of any fee for any service or material related to trademarks or other marks in connection with an occasional request made by a department or agency of the Government, or any officer thereof. The Indian Arts and Crafts Board will not be charged any fee to register Government trademarks of genuineness and quality for Indian products or for products of particular Indian tribes and groups.

SECTION 10 OF THE ACT OF JUNE 29, 1935

AN ACT To provide for research into basic laws and principles relating to agriculture and to provide for the further development of cooperative agricultural extension work and the more complete endowment and support of land-grant colleges.

* * * * * * *

SEC. 10. (a) In order to carry out further research on utilization and associated problems in connection with the development and application of present, new, and extended uses of agricultural commodities and products thereof authorized by section 1 of this title, and to disseminate information relative thereto, and in addition to all other appropriations authorized by this title, there is hereby authorized to be appropriated the following sums:

(1) $3,000,000 for the fiscal year ending June 30, 1947, and each subsequent fiscal year.

(2) An additional $3,000,000 for the fiscal year ending June 30, 1948, and each subsequent fiscal year.

(3) An additional $3,000,000 for the fiscal year ending June 30, 1949, and each subsequent fiscal year.

(4) An additional $3,000,000 for the fiscal year ending June 30, 1950, and each subsequent fiscal year.

(5) An additional $3,000,000 for the fiscal year ending June 30, 1951, and each subsequent fiscal year.

(6) In addition to the foregoing, such additional funds beginning with the fiscal year ending June 30, 1952, and thereafter, as the Congress may deem necessary.

The Secretary of Agriculture, in accordance with such regulations as he deems necessary, and when in his judgment the work to be performed will be carried out more effectively, more rapidly, or at less cost than if performed by the Department of Agriculture, may enter into contracts with such public or private organizations or individuals as he may find qualified to carry on work under this section without regard to the provisions of section 3709, Revised Statutes, and with respect to such contracts he may make advance progress or other payments without regard to the provisions of section 3648, Revised Statutes. Contracts hereunder may be made for work to continue not more than four years from the date of any such contract. Notwithstanding the provisions of section 5 of the Act of June 20, 1874, as amended (31 U.S.C. 713), any unexpended balances of appropriations properly obligated by contracting with an organization as provided in this subsection may remain upon the books of the Treasury for not more than five fiscal years before being carried to the surplus fund and covered into the Treasury. Research authorized under this subsection shall be conducted so far

request therefor by the Commissioner of Patents (unless the Commission advises the Commissioner of Patents that its rights have been determined and that accordingly no statement is necessary) a statement under oath setting forth the full facts surrounding the making or conception of the invention or discovery described in the application and whether the invention or discovery was made or conceived in the course of or under any contract, subcontract, or arrangement entered into with or for the benefit of the Commission, regardless of whether the contract, subcontract, or arrangement involved the expenditure of funds by the Commission. The Commissioner of Patents shall as soon as the application is otherwise in condition for allowance forward copies of the application and the statement to the Commission.

[The Commissioner of Patents may proceed with the application and issue the patent to the applicant (if the invention or discovery is otherwise patentable) unless the Commission, within 90 days after receipt of copies of the application and statement, directs the Commissioner of Patents to issue the patent to the Commission (if the invention or discovery is otherwise patentable) to be held by the Commission as the agent of and on behalf of the United States.

[If the Commission files such a direction with the Commissioner of Patents, and if the applicant's statement claims, and the applicant still believes, that the invention or discovery was not made or conceived in the course of or under any contract, subcontract or arrangement entered into with or for the benefit of the Commission entitling the Commission to the title to the application or the patent the applicant may, within 30 days after notification of the filing of such a direction, request a hearing before a Board of Patent Interferences. The Board shall have the power to hear and determine whether the Commission was entitled to the direction filed with the Commissioner of Patents. The Board shall follow the rules and procedures established for interference cases and an appeal may be taken by either the applicant or the Commission from the final order of the Board to the Court of Customs and Patent Appeals in accordance with the procedures governing the appeals from the Board of Patent Interferences.

[If the statement filed by the applicant should thereafter be found to contain false material statements any notification by the Commission that it has no objections to the issuance of a patent to the applicant shall not be deemed in any respect to constitute a waiver of the provisions of this section or of any applicable civil or criminal statute, and the Commission may have the title to the patent transferred to the Commission on the records of the Commissioner of Patents in accordance with the provisions of this section. A determination of rights by the Commission pursuant to a contractual provision or other arrangement prior to the request of the Commissioner of Patents for the statement, shall be final in the absence of false material statements or nondisclosure of material facts by the applicant.]

SECTION 5 OF THE CONSUMER PRODUCT SAFETY ACT

PRODUCT SAFETY INFORMATION AND RESEARCH

SEC. 5. (a) * * *

* * * * * * *

[(d) Whenever the Federal contribution for any information, research, or development activity authorized by this Act is more than minimal, the Commission shall include in any contract, grant, or other arrangement for such activity, provisions effective to insure that the rights to all information, uses, processes, patents, and other developments resulting from that activity will be made available to the public without charge on a nonexclusive basis. Nothing in this subsection shall be construed to deprive any person of any right with he may have had prior to entering into any arrangement referred to in this subsection, to any patent, patent application, or invention.]

SECTION 501 OF THE FEDERAL MINE SAFETY AND HEALTH ACT OF 1977

RESEARCH

SEC. 501. (a) * * *

* * * * * * *

(c) In carrying out the provisions for research, demonstrations, experiments, studies, training, and education under this section and sections 301(b) and 502(a) of this Act, the Secretary of the Interior and the Secretary of Health, Education, and Welfare in coordination with the Secretary may enter into contracts with, and make grants to, public and private agencies and organizations and individuals. [No research, demonstrations, or experiments shall be carried out, contracted for, sponsored, cosponsored, or authorized under authority of this Act, unless all information, uses, products, processes, patents, and other developments resulting from such research, demonstrations, or experiments will (with such exception and limitation, if any, as the Secretary of the Interior or the Secretary of Health, Education, and Welfare in coordination with the Secretary may find to be necessary in the public interest) be available to the general public.]

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SECTION 106 OF THE NATIONAL TRAFFIC AND MOTOR VEHICLE SAFETY ACT OF 1966

SEC. 106. (a) * * *

* * * * * * *

essary to accomplish substantial utilization of the invention.

[(i) The Administrator shall provide an annual periodic notice to the public in the Federal Register, or other appropriate publication, of the right to have a hearing as provided by subsection (h)(7) of this section, and of the availability of the records of determinations provided in this section.

[(j) The Administrator shall, in granting waivers or licenses, consider the small business status of the applicant.

[(k) The Administrator is authorized to take all suitable and necessary steps to protect any invention or discovery to which the United States holds title, and to require that contractors or persons who acquire rights to inventions under this section protect such inventions.]

(l) The Administration shall be considered a defense agency of the United States for the purpose of chapter 17 of title 35 of the United States Code.

[(m) As used in this section—

[(1) the term "person" means any individual, partnership, corporation, association, institution, or other entity;

[(2) the term "contract" means any contract, grant, agreement, understanding, or other arrangement, which includes research, development, or demonstration work, and includes any assignment, substitution of parties, or subcontract executed or entered into thereunder;

[(3) the term "made", when used in relation to any invention means the conception or first actual reduction to practice of such invention;

[(4) the term "invention" means inventions or discoveries, whether patented or unpatented; and

[(5) the term "contractor" means any person having a contract with or on behalf of the Administration.

[(n) Within twelve months after the date of the enactment of this Act, the Administrator with the participation of the Attorney General, the Secretary of Commerce, and other officials as the President may designate, shall submit to the President and the appropriate congressional committees a report concerning the applicability of existing patent policies affecting the programs under this Act, along with his recommendations for amendments or additions to the statutory patent policy, including his recommendations on mandatory licensing, which he deems advisable for carrying out the purposes of this Act.]

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LOAN GUARANTEES FOR ALTERNATIVE FUEL DEMONSTRATION FACILITIES

SEC. 19. (a) * * *

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(g)(1) * * *

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[(1) the extent to which such waiver is a reasonable and necessary incentive to call forth private risk capital for the development and commercialization of the invention; and

[(2) the extent to which the plans, intentions, and ability of the contractor or inventor will obtain expeditious commercialization of such invention.

[(f) Whenever title to an invention is vested in the United States, there may be reserved to the contractor or inventor—

[(1) a revocable or irrevocable nonexclusive, paid-up license for the practice of the invention throughout the world; and

[(2) the rights to such invention in any foreign country where the United States has elected not to secure patent rights and the contractor elects to do so, subject to the rights set forth in paragraphs (2), (3), (6), and (7) of subsection (h): *Provided,* That when specifically requested by the Administration and three years after issuance of such a patent, the contractor shall submit the report specified in subsection (h)(1) of this section.

[(g)(1) Subject to paragraph (2) of this subsection, the Administrator shall determine and promulgate regulations specifying the terms and conditions upon which licenses may be granted in any invention to which title is vested in the United States.

[(2) Pursuant to paragraph (1) of this subsection, the Administrator may grant exclusive or partially exclusive licenses in any invention only if, after notice and opportunity for hearing, it is determined that—

[(A) the interests of the United States and the general public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to the point of practical or commercial applications;

[(B) the desired practical or commercial applications have not been achieved, or are not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

[(C) exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth risk capital and expenses to bring the invention to the point of practical or commercial applications; and

[(D) the proposed terms and scope of exclusivity are not substantially greater than necessary to provide the incentive for bringing the invention to the point of practical or commercial applications and to permit the licensee to recoup the costs and a reasonable profit thereon:

Provided, That, the Administrator shall not grant such exclusive or partially exclusive license if he determines that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates. The Administration shall maintain a publicly available, periodically updated record of determinations to grant such licenses.

[(h) Each waiver of rights or grant of an exclusive or partially exclusive license shall contain such terms and conditions as the Administrator may determine to be appropriate for the production of the interests of the United States and the general public, including provisions for the following:

in such orders and decrees as it shall determine to be required to carry into effect fully the provisions of this subsection. Process of the district court for any judicial district in any action instituted under this subsection may be served in any other judicial district of the United States by the United States marshal thereof. Whenever it appears to the court in which any such action is pending that other parties should be brought before the court in such action, the court may cause such other parties to be summoned from any judicial district of the United States.]

THE FEDERAL NONNUCLEAR RESEARCH AND DEVELOPMENT ACT OF 1974

* * * * * * *

PATENT POLICY

SEC. 9. [(a) Whenever any invention is made or conceived in the course of or under any contract of the Administration, other than nuclear energy research, development, and demonstration pursuant to the Atomic Energy Act of 1954 (42 U.S.C. 2011 et seq.) and the Administrator determines that—

[(1) the person who made the invention was employed or assigned to perform research, development, or demonstration work and the invention is related to the work he was employed or assigned to perform, or that it was within the scope of his employment duties, whether or not it was made during working hours, or with a contribution by the Government of the use of Government facilities, equipment, materials, allocated funds, information proprietary to the Government, or services of Government employees during working hours; or

[(2) the person who made the invention was not employed or assigned to perform research, development, or demonstration work, but the invention is nevertheless related to the contract or to the work or duties he was employed or assigned to perform, and was made during working hours, or with a contribution from the Government of the sort referred to in clause (1).

title to such invention shall vest in the United States, and if patents on such invention are issued they shall be issued to the United States, unless in particular circumstances the Administrator waives all or any part of the rights of the United States to such invention in conformity with the provisions of this section.

[(b) Each contract entered into by the Administration with any person shall contain effective provisions under which such person shall furnish promptly to the Administration a written report containing full and complete technical information concerning any invention, discovery, improvement, or innovation which may be made in the course of or under such contract.

[(c) Under such regulations in conformity with the provisions of this section as the Administrator shall prescribe, the Administrator may waive all or any part of the rights of the United States under this section with respect to any invention or class of inventions made or which may be made by any person or class of persons in the course of or under any contract of the Administration if he de-

A "transmission program" is a body of material that, as an aggregate, has been produced for the sole purpose of transmission to the public in sequence and as a unit.

To "transmit" a performance or display is to communicate it by any device or process whereby images or sounds are received beyond the place from which they are sent.

The "United States", when used in a geographical sense, comprises the several States, the District of Columbia and the Commonwealth of Puerto Rico, and the organized territories under the jurisdiction of the United States Government.

A "useful article" is an article having an intrinsic utilitarian function that is not merely to portray the appearance of the article or to convey information. An article that is normally a part of a useful article is considered a "useful article".

The author's "widow" or "widower" is the author's surviving spouse under the law of the author's domicile at the time of his or her death, whether or not the spouse has later remarried.

A "work of the United States Government" is a work prepared by an officer or employee of the United States Government as part of that person's official duties.

A "work made for hire" is—

(1) a work prepared by an employee within the scope of his or her employment; or

(2) a work specially ordered or commissioned for use as a contribution to a collective work, as a part of a motion picture or other audiovisual work, as a translation, as a supplementary work, as a compilation, as an instructional text, as a test, as answer material for a test, or as an atlas, if the parties expressly agree in a written instrument signed by them that the work shall be considered a work made for hire. For the purpose of the foregoing sentence, a "supplementary work" is a work prepared for publication as a secondary adjunct to a work by another author for the purpose of introducing, concluding, illustrating, explaining, revising, commenting upon, or assisting in the use of the other work, such as forewords, afterwords, pictorial illustrations, maps, charts, tables, editorial notes, musical arrangements, answer material for tests, bibliographies, appendixes, and indexes, and an "instructional text" is a literary, pictorial, or graphic work prepared for publication and with the purpose of use in systematic instructional activities.

A "computer program" is a set of statements or instructions to be used directly or indirectly in a computer in order to bring about a certain result.

* * * * * * *

§ 117. Scope of exclusive rights: Use in conjunction with computers and similar information systems

[Notwithstanding the provisions of sections 106 through 116 and 118, this title does not afford to the owner of copyright in a work any greater or lesser rights with respect to the use of the work in conjunction with automatic systems capable of storing, processing, retrieving, or transferring information, or in conjunction with any similar device, machine, or process, than those afforded to works

nated, or arranged in such a way that the resulting work as a whole constitutes an original work of authorship. The term "compilation" includes collective works.

"Copies" are material objects, other than phonorecords, in which a work is fixed by any method now known or later developed, and from which the work can be perceived, reproduced, or otherwise communicated, either directly or with the aid of a machine or device. The term "copies" includes the material object, other than phonorecord, in which the work is first fixed.

"Copyright owner", with respect to any one of the exclusive rights comprised in a copyright, refers to the owner of that particular right.

A work is "created" when it is fixed in a copy or phonorecord for the first time; where a work is prepared over a period of time, the portion of it that has been fixed at any particular time constitutes the work as of that time, and where the work has been prepared in different versions, each version constitutes a separate work.

A "derivative work" is a work based upon one or more preexisting works, such as a translation, musical arrangement, dramatization, fictionalization, motion picture version, sound recording, art reproduction, abridgment, condensation, or any other form in which a work may be recast, transformed, or adapted. A work consisting of editorial revisions, annotations, elaborations, or other modifications which, as a whole, represent an original work of authorship, is a "derivative work".

A "device", machine", or "process" is one now known or later developed.

To "display" a work means to show a copy of it, either directly or by means of a film, slide, television image, or any other device or process or, in the case of a motion picture or other audiovisual work, to show individual images nonsequentially.

A work is "fixed" in a tangible medium of expression when its embodiment in a copy or phonorecord, by or under the authority of the author, is sufficiently permanent or stable to permit it to be perceived, reproduced, or otherwise communicated for a period of more than transitory duration. A work consisting of sounds, images, or both, that are being transmitted, is "fixed" for purposes of this title if a fixation of the work is being made simultaneously with its transmission.

The terms "including" and "such as" are illustrative and not limitative.

A "joint work" is a work prepared by two or more authors with the intention that their contributions be merged into inseparable or interdependent parts of a unitary whole.

"Literary works" are works, other than audiovisual works, expressed in words, numbers, or other verbal or numerical symbols or indicia, regardless of the nature of the material objects, such as books, periodicals, manuscripts, phonorecords, film, tapes, disks, or cards, in which they are embodied.

"Motion pictures" are audiovisual works consisting of a series of related images which, when shown in succession, impart an impression of motion, together with accompanying sounds, if any.

To "perform" a work means to recite, render, play, dance, or act it, either directly or by means of any device or process or, in the case of a motion picture or other audiovisual work, to show its

SECTION 12 OF THE ELECTRIC AND HYBRID VEHICLE RESEARCH DEVELOPMENT AND DEMONSTRATION ACT OF 1976

SEC. 12. PATENTS.

[Section 9 of the Federal Nonnuclear Energy Research and Development Act of 1974 (42 U.S.C. 5908) shall apply to any contract (including any assignment, substitution of parties, or subcontract thereunder), entered into, made, or issued by the Administrator pursuant to section 8 of this Act.]

SECTION 112 OF THE ACT OF JUNE 3, 1977

AN ACT To authorize appropriations to the Energy Research and Development Administration in accordance with section 261 of the Atomic Energy Act of 1954, as amended, section 305 of the Energy Reorganization Act of 1974, and section 16 of the Federal Nonnuclear Energy Research and Development Act of 1974, and for other purposes.

* * * * * * *

TITLE I—NONNUCLEAR PROGRAMS

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Sec. 112. (a) * * *

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(d)(1) Grants, agreements or contracts under this section may be made to individuals, local nonprofit organizations and institutions, State and local agencies, Indian tribes and small businesses. The Administration shall develop simplified procedures with respect to application for support under this section.

(2) Each grant, agreement or contract under this section [shall be governed by the provisions of section 9 of the Federal Nonnuclear Energy Research and Development Act of 1974 and] shall contain effective provisions under which the Administration shall receive a full written report of activities supported in whole or in part by funds made available by the Administration; and

(3) In determining the allocation of funds among applicants for support under this section the Administrator may take into consideration:

(A) the potential for energy savings or energy production;

(B) the type of fuel saved or produced;

(C) the potential impact on local or regional energy or environmental problems; and

(D) such other criteria as the Administrator finds necessary to achieve the purposes of this Act or the purposes of the Federal Nonnuclear Energy Research and Development Act of 1974.

SECTION 12 OF THE ACT OF FEBRUARY 14, 1903

BUREAUS IN DEPARTMENT

SEC. 12. The following named bureaus, administrations, services, offices, and programs of the public services, and all that pertains thereto, shall be under the jurisdiction and subject to the control of the Secretary of Commerce:

(a) * * *

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[(e) Patent Office;]

* * * * * * *

SECTION 3 OF THE ACT OF APRIL 5, 1944

An Act Authorizing the construction and operation of demonstration plants to produce synthetic liquid fuels from coal, oil shales, agricultural and forestry products, and other substances, in order to aid the prosecution of the war, to conserve and increase the oil resources of the Nation, and for other purposes.

* * * * * * *

[SEC. 3. The Secretary of the Interior is authorized to grant, on such terms as he may consider appropriate but subject to section 207 of the Federal Property and Administrative Services Act of 1949, licenses under patent rights acquired under this Act: *Provided,* That such licenses are consistent with the terms of the agreements by which such patent rights are acquired. No patent acquired by the Secretary of the Interior under this Act shall prevent any citizen of the United States, or corporation created under the laws of the United States or any State thereof, from using any invention, discovery, or process covered by such patent, or restrict such use by any such citizen or corporation, or be the basis of any claim against any such person or corporation on account of such use.]

RESOURCES CONSERVATION AND RECOVERY ACT OF 1976

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SUBTITLE H—RESEARCH, DEVELOPMENT, DEMONSTRATION, AND INFORMATION

RESEARCH, DEMONSTRATIONS, TRAINING, AND OTHER ACTIVITIES

SEC. 8001. (a) GENERAL AUTHORITY.—* * *

* * * * * * *

(c) AUTHORITIES.—(1) In carrying out subsection (a) of this section respecting solid waste research, studies, development, and demonstration, except as otherwise specifically provided in section

§ 408. Relationship to other laws

Nothing in this chapter creates any immunities or defenses to actions under the antitrust laws.

§ 409. Authority of Federal agencies

(a) Agencies may apply for, obtain, maintain, and protect patent rights in the United States and in foreign countries on any invention in which the Government has an interest in order to promote the use of inventions having significant commercial potential or otherwise advance the national interest.

(b) Agencies may license federally owned patent rights on terms and conditions consistent with subchapter III.

(c) Agencies may transfer patent rights to other agencies and accept them from other agencies, in whole or in part, without regard to the Federal Property and Administrative Services Act of 1949 (40 U.S.C. 471).

(d) Agencies may withhold publication or release of information disclosing any invention long enough for patent applications to be filed.

(e) Agencies may promote licensing of federally owned patent rights by making market surveys, acquiring technical information, or otherwise enhancing the marketability of the inventions.

(f) Agencies may enter into contracts necessary and appropriate to accomplish the purposes of this section.

§ 410. Responsibilities of the Secretary of Commerce

(a) The Commissioner of Patents will—

(1) consult with other agencies about areas of science and technology with potential for commercial development.

(2) coordinate a program to help agencies in exercising the authority given by section 409.

(3) evaluate inventions referred by agencies to identify those with the greatest commercial potential and to promote their public use;

(4) help agencies seek and maintain patents in the United States and in foreign countries by paying fees and costs and by other means;

(5) develop and manage a Government-wide program, with appropriate private sector participation, to stimulate transfer to the private sector of potentially valuable federally-owned technology through dissemination of information about the technology;

(6) publish notice of all federally-owned patent rights that are available for licensing; and

(7) seven years after the date of enactment of this Act, submit to the President and Congress a report describing the operation of this chapter and containing recommendations, if any, for further amendments to promote industrial innovation in the United States.

(b) There is authorized to be appropriated to the Commissioner of Patents such sums as may be necessary to enable the Commissioner to carry out responsibilities under this section.

§ 411. Definitions

As used in this chapter—

SUBCHAPTER III—LICENSING OF FEDERALLY OWNED INVENTIONS

§ 400. Covered inventions

This subchapter applies to the licensing of all federally owned patent rights, including licenses or sublicenses granted or required to be granted by the Government under section 387. However, it does not apply to licenses established by the other sections of subchapter I of this chapter.

§ 401. Exclusive or partially exclusive licenses

(a) An agency may grant exclusive or partially exclusive domestic licenses under federally owned patent rights not automatically licensed under section 384 only if, after public notice and opportunity for filing written objections, it determines that—

(1) the desired practical application is not likely to be achieved under a nonexclusive license; and

(2) the scope of proposed exclusivity is not greater than reasonably necessary.

(b) An agency may grant exclusive or partially exclusive foreign licenses under federally owned patent rights after public notice and opportunity for filing written objections and after determining whether the interests of the Government or of United States industry in foreign commerce will be enhanced.

(c) An agency will not grant a license under this section if it determines that such a grant would create or maintain a situation inconsistent with the antitrust laws.

(d) Agencies will maintain periodically updated records of determinations to grant exclusive or partially exclusive licenses. These records will be publicly available.

§ 402. Minimum Government rights

Each license granted under section 401 will contain such terms and conditions as the agency finds appropriate to protect the interests of the Government and the public, including provisions reserving to the Government:

(1) The right to require from the licensee written reports on the use of the invention,

(2) A royalty-free, worldwide right to practice the invention or have it practiced for the Government, and

(3) The right to license State and local governments to practice the invention or have it practiced for them if the agency determines that reservation of this right would serve the national interest.

§ 403. March-in rights

(a) The Government will have the right to terminate any license granted under section 401 in whole or in part, but only—

(1) if the licensee has not taken and is not expected to take timely and effective action to achieve practical application of the invention in each of the fields of use affected;

(2) if necessary to protect national security;

(3) if necessary to meet requirements for public use specified by Federal regulation;

ment to practice the invention or have it practiced for the Government.

(3) If the agency finds insufficient interest in an invention to justify exercising its rights under paragraph (1) of this section, it may permit the employee-inventor to receive any or all of those rights, subject to the Government's rights as described in paragraph (2) of this section. However, nothing in this paragraph will prevent the agency from publishing the invention or otherwise dedicating it to the public.

(4) If the agency determines that national security might be impaired if the employee-inventor were to receive rights in an invention under paragraphs (2) or (3) of this section, the Government will acquire all rights in the invention.

(5) The Government will claim no rights under this Act in any employee-invention not covered by paragraphs (1) or (2) of this section.

(6) Notwithstanding paragraph (1) of this section, an agency may enter into agreements providing for appropriate allocation of rights in inventions that result from research or development to which other parties have substantially contributed.

§ *394. Presumptions*

(a) There will be a rebuttable presumption that an employee invention falls within the criteria of section 393(1) if it was made by a Federal employee who is employed or assigned to—

(1) invent, improve, or perfect any art, machine, manufacture, or composition of matter;

(2) conduct or perform research or development work;

(3) supervise, direct, coordinate, or review federally sponsored or supported research or development work; or

(4) act as liaison among agencies or individuals engaged in the work specified in paragraphs (1), (2), or (3) of this subsection.

(b) There will be a rebuttable presumption that an invention falls within the criteria of section 393(2) if it was made by any other Federal employee.

§ *395. Review of agency determinations*

Agency determinations under sections 392 and 393 will be reviewed whenever—

(1) the agency determines not to acquire all rights in an invention, or

(2) an aggrieved employee-inventor requests a review.

Standards and procedures for this review will be prescribed in the regulations issued under section 399.

§ *396. Reassignment of rights*

If an agency finds on the basis of new evidence that it has acquired rights in an invention greater than those to which the Government was entitled under the criteria of section 393, it will grant the employee-inventor such rights as may be necessary to correct the error.

(c) Whenever under this section an agency requires a contractor to grant a license or sublicense, it may specify reasonable terms, including the royalties to be charged, if any; the duration of the license or sublicense; the scope of exclusivity; and the fields of use to be covered.

§ 388. Deviation and waiver

(a) An agency may deviate from the allocation of patent rights in contract inventions provided for in any standard patent rights clause established under section 390 acquiring more or fewer rights in the inventions, to further the agency's mission and the public interest. It may so deviate on a class basis only in accordance with regulations issued either under section 390 or, unless prohibited by those regulations, by the agency. Case-by-case deviations must be authorized by the head of the agency or his designee, and described in the Federal Register.

(b) The national security and antitrust march-in rights reserved by sections 387(a)(2), 387(a)(4), and 387(c) may not be waived under any circumstances.

(c) Rights reserved by sections 384 and 387(a)(1) may be waived only:

(1) in contracts involving cosponsored, cost-sharing, or joint-venture research or development to which the contractor makes a substantial contribution of funds, facilities, technology, or equipment; or

(2) in contracts with a contractor whose participation is necessary for the successful accomplishment of the agency's mission but cannot be obtained under the standard patent rights clause.

§ 389. Transfer of rights to contractor employees

The contractor's employee-inventor may receive some or all of the contractor's rights under this subchapter with the permission of the contractor and the approval of the responsible agency. The corresponding obligations of the contractor under this subchapter then will become obligations of the employee-inventor.

§ 390. Regulations and standard patent rights clause

(a) The Office of Federal Procurement Policy will direct the issuance of regulations to implement this title. The regulations will establish a standard patent right clause or clauses, to be included in each Federal contract except as provided in section 388.

(b) Such regulations shall provide payment to the Government for Federal funding of research and development activities through the sharing of royalties and/or revenues with the contractor. Such regulations shall provide, to the extent appropriate, a standard contractual clause to be included in all Federal research and development contracts.

(c) Such regulations may allow the agency to waive all or part of the payment set forth in subsection (a) of this section at the time of contracting or at the request of the contractor where the agency determines that—

(1) the probable administrative costs are likely to be greater than the expected amount of payment; or

achieve public use of the invention; but no such list shall be required for contract inventions on which the contractor did not elect to file any patent application. During such four and one-half year period the contractor shall hold temporary title to the contract invention, subject to the rights of the Government provided elsewhere in this Act. Each field will be described with sufficient particularity to allow the Government to identify those fields of use not encompassed by the described field. Upon the filing of such a completed list, or at the end of the four and one-half year period, whichever is earlier, the Government will acquire from the contractor title to all United States patents on such inventions. Neither the contractor nor any sublicensee may market or use commercially any product or process embodying the patented invention, except under the nonexclusive license granted pursuant to section 385, unless the contractor has described a field of use which embraces the product or process and has reported the field of use to the responsible agency pursuant to this section; but failure to file a field of use list prior to marketing or prior to using commercially any product or process embodying an invention shall be excused if such failure resulted from inadvertance, mistake, or excusable neglect.

(b) If such contractor has filed a United States patent application within a reasonable time after it has disclosed an invention under section 382(b)(1), it will receive an exclusive license in each described field of use, with the exclusive right to sublicense, under each United States patent or patent application transferred to the Government under subsection (a) of this section 384. However, its license will be subject to the Government's minimum rights under section 386 and march-in rights under section 387.

(c) The contractor automatically will acquire by operation of law the right to receive an exclusive license, pursuant to subsection (b) of this section in each described field of use, ninety days after it provides the responsible agency with a description of such fields of use pursuant to subsection (a), except that it will not acquire the right to receive an exclusive license in any field of use as to which the agency notifies the contractor within the ninety-day period that it has made a determination under subsection (d) of this section.

(d) The contractor will not acquire an exclusive license in any field of use if the responsible agency determines that the contractor's possession of such a license—

(1) would impair national security; or

(2) would create or maintain a situation inconsistent with the antitrust laws.

(e) An agency determination under subsection (d) of this section will include written reasons for the determination. The contractor may appeal the determination to the United States Court of Customs and Patent Appeals within sixty days after the contractor has been notified of the determination. That court will have exclusive jurisdiction to determine the matter de novo and to affirm, reverse, or modify the agency determination, specifically including authority to require that the contractor receive any exclusive license provided for by this section.

(f) A contractor that is not a small business or a nonprofit organization will acquire title to its contract invention in each foreign country it lists under section 382(b)(2) in which it files a patent application within a reasonable time unless the agency determines

to 145 of this title, with respect to any decision adverse to the patentability of any original or proposed amended or new claim of the patent.

§ 307. Certificate of patentability, unpatentability, and claim cancellation

(a) In a reexamination proceeding under this chapter, when the time for appeal has expired or any appeal proceeding has terminated, the Commissioner will issue and publish a certificate canceling any claim of the patent finally determined to be unpatentable, confirming any claim of the patent determined to be patentable, and incorporating in the patent any proposed amended or new claim determined to be patentable.

(b) Any proposed amended or new claim determined to be patentable and incorporated into a patent following a reexamination proceeding will have the same effect as that specified in section 252 of this title for reissued patents on the right of any person who made, purchased, or used anything patented by such proposed amended or new claim, or who made substantial preparation for the same, prior to issuance of a certificate under the provisions of subsection (a) of this section.

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PART IV—PATENT COOPERATION TREATY

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CHAPTER 38—THE GOVERNMENT PATENT POLICY ACT OF 1980

Sec. 381. Title.

SUBCHAPTER I—CONTRACT INVENTIONS

Sec. 382. Contract inventions; reporting.
Sec. 383. Allocation of rights—small businesses and nonprofit organizations.
Sec. 384. Allocation of rights—other contractors.
Sec. 385. Contractor license.
Sec. 386. Minimum Government rights.
Sec. 387. March-in rights.
Sec. 388. Deviation and waiver.
Sec. 389. Transfer of rights to contractor employees.
Sec. 390. Regulations and standard patent rights clause.

SUBCHAPTER II—INVENTIONS OF FEDERAL EMPLOYEES

Sec. 391. Employee inventions.
Sec. 392. Reporting of inventions.
Sec. 393. Criteria for the allocation of rights.
Sec. 394. Presumptions.
Sec. 395. Review of agency determinations.
Sec. 396. Reassignment of rights.
Sec. 397. Incentive awards program.
Sec. 398. Income sharing from patent licenses.
Sec. 399. Regulations.

SUBCHAPTER III—LICENSING OF FEDERALLY-OWNED INVENTIONS

Sec. 400. Covered inventions.
Sec. 401. Exclusive or partially exclusive licenses.

emergency and six months thereafter. The Commissioner may rescind any order upon notification by the heads of the departments and the chief officers of the agencies who caused the order to be issued that the publication or disclosure of the invention is no longer deemed detrimental to the national security.

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§ 188. Rules and regulations, delegation of power

The Atomic Energy Commission, the Secretary of a defense department, the chief officer of any other department or agency of the Government designated by the President as a defense agency of the United States, and the [Secretary of Commerce] *Commissioner of Patents and Trademarks,* may separately issue rules and regulations to enable the respective department or agency to carry out the provisions of this chapter, and may delegate any power conferred by this chapter.

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CHAPTER 30—PRIOR ART CITATIONS TO OFFICE AND REEXAMINATION OF PATENTS

Sec. 301. Citation of prior art.
Sec. 302. Request for reexamination.
Sec. 303. Determination of issue by Commissioner.
Sec. 304. Reexamination order by Commissioner.
Sec. 305. Conduct of reexamination proceedings.
Sec. 306. Appeal.
Sec. 307. Certificate of patentability, unpatentability, and claim cancellation.

§ 301. Citation of prior art

Any person at any time may cite to the Office in writing prior art consisting of patents or printed publications which that person believes to have a bearing on the patentability of any claim of a particular patent. If the person explains in writing the pertinency and manner of applying such prior art to at least one claim of the patent, the citation of such prior art and the explanation thereof will become a part of the official file of the patent. At the written request of the person citing the prior art, his or her identity will be excluded from the patent file and kept confidential.

§ 302. Request for reexamination

Any person at any time may file a request for reexamination by the Office of any claim of a patent on the basis of any prior art cited under the provisions of section 301 of this title. The request must be in writing and must be accompanied by payment of a reexamination fee established by the Commissioner of Patents pursuant to the provisions of section 41 of this title. The request must set forth the pertinency and manner of applying cited prior art to every claim for which reexamination is requested. Unless the requesting person is the owner of the patent, the Commissioner promptly will send a copy of the request to the owner of record of the patent.

§ 303. Determination of issue by Commissioner

(a) Within three months following the filing of a request for reexamination under the provisions of section 302 of this title, the Com-

copy of the specifications and drawings for all patents referred to in that notice without charge.

(f) Fees will be adjusted by the Commissioner to achieve the levels of recovery specified in this section; however, no patent application processing fee or fee for maintaining a patent in force will be adjusted more than once every three years.

(g) No fee established by the Commissioner under this section will take effect prior to sixty days following notice in the Federal Register.

[§ 42. Payment of patent fees; return of excess amounts

[All patent fees shall be paid to the Commissioner who, except as provided in sections 361(b) and 376(b) of this title, shall deposit the same in the Treasury of the United States in such manner as the Secretary of the Treasury directs, and the Commissioner may refund any sum paid by mistake or in excess of the fee required by law.]

§ 42. Patent and Trademark Office funding

(a) All fees for services performed by or materials furnished by the Patent and Trademark Office will be payable to the Commissioner.

(b) All fees paid to the Commissioner and all appropriations for defraying the costs of the activities of the Patent and Trademark Office will be credited to the Patent and Trademark Office Appropriation Account in the Treasury of the United States, the provisions of section 725e of title 31, United States Code, notwithstanding.

(c) Revenues from fees will be available to the Commissioner of Patents to carry out, to the extent provided for in appropriation Acts, the activities of the Patent and Trademark Office.

(d) The Commissioner may refund any fee paid by mistake or any amount paid in excess of that required.

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PART II—PATENTABILITY OF INVENTIONS AND GRANT OF PATENTS

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CHAPTER 14—ISSUE OF PATENT

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§ 154. Contents and term of patent

Every patent shall contain a short title of the invention and a grant to the patentee, his heirs or assigns, for the term of seventeen years, subject to the payment of [issue] fees as provided for in this title, of the right to exclude others from making, using, or selling the invention throughout the United States, referring to the specification for the particulars thereof. A copy of the specification and drawings shall be annexed to the patent and be a part thereof.

* * * * * * *

[§ 41. Patent fees

[(a) The Commissioner shall charge the following fees:

[1. On filing each application for an original patent, except in design cases, $65; in addition on filing or on presentation at any other time, $10 for each claim in independent form which is in excess of one, and $2, for each claim (whether independent or dependent) which is in excess of ten. For the purpose of computing fees, a multiple dependent claim as referred to in section 112 of this title or any claim depending therefrom shall be considered as separate dependent claims in accordance with the number of claims to which reference is made. Errors in payment of the additional fees may be rectified in accordance with regulations of the Commissioner.

[2. For issuing each original or reissue patent, except in design cases, $100; in addition, $10 for each page (or portion thereof) of specification as printed, and $2 for each sheet of drawing.

[3. In design cases:

[a. On filing each design application, $20.

[b. On issuing each design patent: For three years and six months, $10; for seven years, $20; and for fourteen years, $30.

[4. On filing each application for the reissue of a patent, $65; in addition, on filing or on presentation at any other time, $10 for each claim in independent form which is in excess of the number of independent claims of the original patent, and $2 for each claim (whether independent or dependent) which is in excess of ten and also in excess of the number of claims of the original patent. Errors in payment of the additional fees may be rectified in accordance with regulations of the Commissioner.

[5. On filing each disclaimer, $15.

[6. On appeal for the first time from the examiner to the Board of Appeals, $50; in addition, on filing a brief in support of the appeal, $50.

[7. On filing each petition for the revival of an abandoned application for a patent or for the delayed payment of the fee for issuing each patent, $15.

[8. For certificate under section 255 or under section 256 of this title, $15.

[9. As available and if in print: For uncertified printed copies of specifications and drawings of patents (except design patents), 50 cents per copy; for design patents, 20 cents per copy; the Commissioner may establish a charge not to exceed $1 per copy for patents in excess of twenty-five pages of drawings and specifications and for plant patents printed in color; special rates for libraries specified in section 13 of this title, $50 for patents issued in one year. The Commissioner may, without charge, provide applicants with copies of specifications and drawings of patents when referred to in a notice under section 132.

[10. For recording every assignment, agreement, or other paper relating to the property in a patent or application, $20; where the document relates to more than one patent or application, $3 for each additional item.

[11. For each certificate, $1.

[(b) The Secretary of Commerce may vest in himself the functions of the Patent and Trademark Office and its officers and employees specified in this title and may from time to time authorize their performance by any other officer or employee.]

[(c)] (b) The [Secretary of Commerce] *Commissioner* is authorized to fix the per annum rate of basic compensation of each examiner-in-chief in the Patent and Trademark Office at not in excess of the maximum scheduled rate provided for positions in grade 17 of the General Schedule of the Classification Act of 1949, as amended.

* * * * * * *

§ 6. Duties of Commissioner

(a) The Commissioner[, under the direction of the Secretary of Commerce,] shall superintend or perform all duties required by law respecting the granting and issuing of patents and the registration of trademarks; shall have the authority to carry on studies and programs regarding domestic and international patent and trademark law; and shall have charge of property belonging to the Patent and Trademark Office. He may[, subject to the approval of the Secretary of Commerce,] establish regulations, not inconsistent with law, for the conduct of proceedings in the Patent and Trademark Office.

(b) The Commissioner[, under the direction of the Secretary of Commerce,] may, in coordination with the Department of State, carry on programs and studies cooperatively with foreign patent offices and international intergovernmental organizations, or may authorize such programs and studies to be carried on, in connection with the performance of duties stated in subsection (a) of this section.

(c) The Commissioner[, under the direction of the Secretary of Commerce,] may, with the concurrence of the Secretary of State, transfer funds appropriated to the Patent and Trademark Office, not to exceed $100,000 in any year, to the Department of State for the purpose of making special payments to international intergovernmental organizations for studies and programs for advancing international cooperation concerning patents, trademarks, and related matters. These special payments may be in addition to any other payments or contributions to the international organization and shall not be subject to any limitations imposed by law on the amounts of such other payments or contributions by the Government of the United States.

(d) The Commissioner[, under the direction of the secretary of Commerce,] may, with the concurrence of the Secretary of State, allocate funds appropriated to the Patent Office, to the Department of State for the purpose of payment of the share on the part of the United States to the working capital fund established under the Patent Cooperation Treaty. Contributions to cover the share on the part of the United States of any operating deficits of the International Bureau under the Patent Cooperation Treaty shall be included in the annual budget of the Patent Office and may be transferred by the Commissioner[, under the direction of the Secretary of Commerce,] to the Department of State for the purpose of making payments thereof to the International Bureau.

It has been said that an independent Patent Office would have only a small additional cost. This is illusory. Setting up an independent office with its own administrative hierarchy, which must make available the facilities and services that are now being provided by the Department of Commerce, will be a very costly operation. I speak from some experience because the Committee on Government Operations has been called upon to create numerous independent agencies and offices over the years. Many of these have been established for good purposes, but with hardly an exception they required substantial extra expenditures.

Taking the Patent Office out of Commerce will not necessarily enhance its efficiency or improve its services to the business community and the public. This shift may require a realignment of procedures which could as well be done within the Department of Commerce. Inevitably, any reorganization requires a temporary slowdown in operations and procedures until the new organization has been put into effect and had its shakedown cruise. This could take months or even years and could have, at the very least, a temporary deleterious effect on Patent Office services.

I cannot see how the creation of an independent agency will necessarily add to the amount of funding available to the Patent Office or bring about an increase in the number of patent examiners. The doubts about the need for larger appropriations will exist whether or not the Patent Office is in Commerce or outside. The budget will still have to go through the Office of Management and Budget and be subject to the Administration's overall policy and will still have to run the gauntlet of the Appropriations Committees and of the Congress.

Basically, our objective is to increase productivity in the United States and make ourselves more competitive with the technological inventiveness and ingenuity of foreign nations. Certainly this is an urgent matter which needs serious attention and attack. But a removal of the Patent Office from the agency in which it is currently housed would only be cosmetic and in no way alleviate the root causes of the problem. Let us undertake the difficult steps that are needed but not fool ourselves and the American public by making changes that will have little or no effect.

CONCLUSION

I agree wholeheartedly with the establishment of a U.S. patent policy that encourages the development and production of new products, that will reward those who take risks, and that will inspire increased confidence in our economy. My comments above deal only with the very special issue of government-funded research and development activities.

The Federal government has the equivalent of a fiduciary responsibility to the taxpayers of this country. Property acquired with public funds should belong to the public. Deviations from that fundamental principle should be allowed only where a compelling justification can be shown and where the voice of the public can be heard in protest. This legislation stands that principle on its head by automatically conveying title or the exclusive right to use public property to private entities and placing the burden on the Federal government to demonstrate that a retrieval of those rights is in the public interest.

JACK BROOKS.

that this organizational realignment will result in any increase in efficiency in the operations of the Patent Office or in any increase in productivity in U.S. industrial output. On the other hand, there is every reason to believe it will result in increased expenditures and further fragmentation of government management. Also, its inclusion in this bill raises a serious jurisdictional problem as government reorganizations are matters within the jurisdiction of the Committee on Government Operations.

COMPETITION VS. MONOPOLY

Proponents of this legislation allege that assigning title or automatic exclusive licensing rights to government contractors and grantees will result in greater productivity. In fact, the opposite result may occur. By granting an exclusive license to the developer of a government-funded patent, the number of potential producers and marketers may be substantially restricted. Open competition has long been the basic element of our economic system. Providing patent rights inherently grants a type of monopoly privilege. Such privileges can be justified when a private individual or entity has risked considerable sums on the research and development of the product, costs which the developer should be able to recapture upon commercialization. A quite different situation exists, however, when the financial risk has been borne by the taxpayer. In that case, the justification for the granting of anti-competitive patent rights does not exist.

UNIFORMITY OF PATENT POLICIES:

Currently, there are about 26 agencies with regulations governing patent rights on government-funded inventions. The proponents of this legislation argue that uniformity in patent policy is badly needed. I would agree that uniformity is, in all probability, desirable, but not at the cost of giving away title and exclusive licenses in public property.

Furthermore, this bill does not achieve uniformity in patent policy. This bill will establish three different policies for handling government-funded patents. The applicable policy will not be determined by the nature of the patent or the public good, but rather by the nature and size of the contractor or grantee. One policy assigns automatic title to the contract invention where the contractor is a small business or nonprofit organization; another policy assigns automatic exclusive licenses to other contractors; and a third policy provides criteria for granting exclusive or partially exclusive licenses in all other cases. Where is the uniformity this legislation was supposed to provide?

POTENTIAL DECREASE IN PRIVATE RESEARCH FUNDS

The Federal government presently pays for well-over half the cost of research and development in the U.S. to the tune of $30 billion a year. Under this legislation, the percentage of government-funded research may become even greater. It would make no sense for a company to spend its own money on the research and development of new products and technology when the government will carry the costs and bear the risk for them. It is an entrepreneur's

that no additional costs would be incurred as a result of enactment of this legislation.

Finally the PTO would be required to report regularly on the status of a computerized data retrieval system. Since the PTO is already planning to study and evaluate the feasibility of such a system, it is assumed that any significant costs incurred as a result of analyzing or implementing such a system would not be a direct result of the legislation. Consequently, no cost has been estimated for this provision.

7. Estimate Comparison: The Commissioner of Patents has estimated that approximately 1,000 to 3,000 requests for reexaminations would be made annually, requiring from 25 to 100 additional staff members, at a cost of between $1 million and $4.5 million annually. CBO estimates approximately 500 applications will be processed beginning in fiscal year 1981 because a later date of enactment is assumed.

8. Previous CBO estimate: On February 27, 1980, the Congressional Budget Office prepared a cost estimate for S. 1679, the Patent Law Amendments of 1979, as ordered reported by the Senate Committee on the Judiciary on February 19, 1980. The costs of S. 1679 and the costs attributed to reexamination in this bill are the same, with adjustments assumed for date of enactment.

On December 4, 1979, CBO prepared a cost estimate on S. 414, the University and Small Business Patent Procedures Act, as ordered reported by the Senate Committee on the Judiciary on November 20, 1979. The CBO estimated that no significant cost would be incurred by the government if a uniform patent procedure for small businesses and nonprofit organizations performing government-supported research and development were established.

9. Estimate prepared by: Mary Maginniss.

10. Estimate approved by: C. G. Nuckols (for James L. Blum, Assistant Director for Budget Analysis.)

INFLATIONARY IMPACT STATEMENT

H.R. 6933 will have no forseeable inflationary impact on prices or costs in the operation of the national economy.

COMMITTEE VOTE

H.R. 6933 was approved by the Committee on the Judiciary on August 20, 1980, by a voice vote.

timated to be $1.4 million in fiscal year 1982, increasing to $2.5 million by fiscal year 1985. It is assumed, however, that the full amount required by the PTO for salaries and expenses would be recovered by fees set at the beginning of the fiscal year and adjusted annually for inflation and anticipated workload. It is assumed that fees would be included with the request for reexamination and reflected as a reimbursable to the agency, resulting in a net outlay of around zero in each fiscal year.

Revision of fee structure

H.R. 6933 would restructure the current fee structure for patents and trademarks. Currently, the PTO recovers approximately 20 percent of the cost of processing patents and approximately 30 percent of the cost of issuing trademarks. These fees are deposited in the general fund of the Treasury.

The bill would allow the PTO to recover up to 25 percent of the average processing costs and 25 percent of the maintenance costs for patents, the latter fee collected in four installments over the life of the patent. In addition, the PTO would be allowed to recover a maximum of 50 percent of the cost of issuing trademarks. All fees for patents and trademarks could be adjusted no more than once every three years and would be credited to the PTO as a reimbursable to the agency, rather than as a revenue to the Treasury.

It is assumed that the revised fee structure for trademarks would be implemented early in the second quarter of fiscal year 1981, and for patents beginning in fiscal year 1982. It is assumed that the agency costs for processing patents and trademarks from which recovery could be made would be approximately $84 million in fiscal year 1982, increasing to approximately $109 million by fiscal year 1985. It is assumed that an average recovery rate of 25 and 50 percent, adjusted every third year, would be established for processing fees for patents and for trademarks, respectively. Patent maintenance fees would be collected three times in a patent's life—around the fourth, eighth, and twelfth year. Since the first payment would not be made until fiscal year 1986, it is not reflected in the table below.

[By fiscal years, in millions of dollars]

	1981	1982	1983	1984	1985
Existing fee structure—Estimated revenues:					
Patents	20.3	20.8	21.3	21.8	22.2
Trademarks	2.4	2.4	2.5	2.5	2.6
Total	22.7	23.2	23.8	24.3	24.8
Proposed fee structure in H.R. 6933—Estimated collections:					
Patents[1]	[2] 20.3	21.2	21.2	21.2	27.2
Trademarks	3.6	3.6	3.6	4.6	4.6
Total	23.6	24.8	24.8	25.8	31.8
Net budget impact	−0.9	−1.6	−1.0	−1.5	−7.0

[1] Maintenance fees would be collected beginning in fiscal year 1986, and by fiscal year 1994 would result in revenues approximately twice those estimated for processing.

[2] The current fee structure for patents remains in effect throught fiscal year 1981.

advice of its own counsel the Committee concluded that state remedies for protection of computer software are not limited by this bill.

OVERSIGHT STATEMENT

Oversight of the Patent and Trademark Office is the responsibility of the Committee on the Judiciary. During the First Session of the 96th Congress the subcommittee on Courts, Civil Liberties and the Administration of Justice held hearings entitled, "General Oversight on the Patent, Trademark and Copyright Systems." They have been published as serial No. 15, Ninety-sixth Congress. The Committee and its subcommittee intend to continue this oversight into the next Congress.

No oversight statement has been received from the Committee on Government Operations regarding H.R. 6933.

NEW BUDGET AUTHORITY

In regard to clause 2(1)(3)(B) of rule XI of the House of Representatives, H.R. 6933 creates no new budget authority.

STATEMENT OF THE BUDGET COMMITTEE

No statement on H.R. 6933 has been received from the Committee on the Budget.

ESTIMATED COST OF THE LEGISLATION

It is estimated that there will be no additional costs to the United States due to the provisions of H.R. 6933. As the statement of the Congressional Budget Office indicates, there will be a substantial savings to the United States as a result of the legislation.

STATEMENT OF THE CONGRESSIONAL BUDGET OFFICE

U.S. CONGRESS,
CONGRESSIONAL BUDGET OFFICE,
Washington, D.C., August 28, 1980.

Hon. PETER W. RODINO, Jr.,
Chairman, Committee on the Judiciary,
U.S. House of Representatives, Washington, D.C.

DEAR MR. CHAIRMAN: Pursuant to Section 403 of the Congressional Budget Act of 1974, the Congressional Budget Office has prepared the attached cost estimate for H.R. 6933, a bill to amend the patent and trademark laws.

Should the Committee so desire, we would be pleased to provide further details on this estimate.

Sincerely,

JAMES BLUM
(For Alice M. Rivlin, Director).

CONGRESSIONAL BUDGET OFFICE—COST ESTIMATE, AUGUST 28, 1980

1. Bill number: H.R. 6933.
2. Bill title: A bill to amend the patent and trademark laws.

Subsection (b) authorizes the appropriation to the Secretary of Commerce of such sums as thereafter may be necessary to enable the Secretary to carry out responsibilities under this section.

Section 411. Definitions

Section 411 sets out the definitions, for purposes of the Act for the terms "Agency," "Responsible agency," "antitrust laws," "contract," "contractor," "Federal employee," " invention," "made," "nonprofit organization," "patent rights," "practical application," "small business," "state," "local," and "will."

CONFORMING PATENT POLICY AMENDMENTS

Section 7 amends or repeals parts of other acts as necessary to implement the provisions of new chapter 38 of title 35, United States Code. Acts amended or repealed in part are:

Title 7, U.S.C. 427(i).
Title 7, U.S.C. 1624(a).
The Federal Coal Mine Health and Safety act of 1969.
The National Traffic and Motor Vehicle Safety Act of 1966.
The National Science Foundation Act of 1950.
The Atomic Energy Act of 1954.
The National Aeronautics and Space Act of 1958.
The Coal Research and Development Act of 1960.
The Helium Act Amendments of 1960.
The Arms Control and Disarmament Act of 1961.
The Appalachian Regional Development Act of 1965.
The Federal Nonnuclear Energy Research and Development Act of 1974.
The Tennessee Valley Authority Act of 1933.
The Consumer Product Safety Act.
Title 30, U.S.C. 323.
The Resources Conservation and Recovery Act of 1976.
The Electric and Hybrid Vehicle Research, Development, and Demonstration Act of 1976.
Public Law 95–39.
The Water Research and Development Act of 1978.

TRANSITIONAL PROVISIONS

Section 8. Effective date

Section 8 provides for the taking effect of the bill's various provisions.

Section 8(a) specified and that the fee setting authority provisions of the bill and the conforming technical amendment take effect upon enactment. Nevertheless, these fees need not be set to recover the levels specified in the bill (25 percent recovery for patent processing and full recovery for providing materials and services in patent and trademark cases) until the first day of the first fiscal year beginning one calendar year after enactment. This will provide at least a year to determine the amounts and natures of fees needed.

Subsection 8(b) provides that the reexamination provisions of this bill take effect six months after enactment and apply to patents then in force or issued thereafter.

Section 404. Regulations

Section 404 makes the Office of Federal Procurement Policy responsible for directing the issuance of regulations specifying the terms and conditions upon which federally-owned patent rights may be licensed. Agencies are permitted to deviate from such regulations on a class basis unless prohibited by the Office of Federal Procurement Policy.

Subchapter IV—Miscellaneous

Section 405. Patent enforcement suits and right of intervention

Subsection 405(a) provides for enforcement of an exclusive license under the chapter by an exclusive licensee without the necessity of joining the United States or any other exclusive licensee as a party. The intention is to make the exclusive license the functional equivalent of title within the specified fields of use. However, the Attorney General and the agency that granted the license must be given prompt notice of the suit and served copies of papers as though they were parties to the suit.

Subsection (b) requires the responsible agency to notify all of its exclusive licensees of any suit by an exclusive licensee, the Government, or another person. One intention of section 405 is to provide for the adjudication of the infringement and validity of a Government-owned patent subject to this Act without the necessity of the United States appearing before the court as a party.

Section 406. Background rights

"Background rights" refer to patent rights on non-contract inventions, those inventions which did not result from federally funded research but which may relate to the work object of a funding agreement. The committee does not contemplate that funding agreements may require the contractor to license such invention (not developed with Federal funds) to third parties. Moreover retention of background rights by Federal agencies is not considered by your committee to be consistent with the intent of this bill.

The problem of "background rights" has seriously disadvantaged certain businesses, primarily small businesses, which bid on government research and development contracts. Background rights refer to patent rights on non-contract inventions, those inventions which did not result from federally funded research, but which may relate to the work object of a funding agreement. Background rights constitute valuable property to many businesses, particularly to small firms; however, some agencies have routinely and unnecessarily required that contractors sign away their exclusive rights to background inventions as a cost of doing business with the Government. The retention of background rights by Federal agencies must be curbed unless such use is clearly justified by a national need.

Section 407. Notice, hearing, and judicial review

Subsection (a) requires that agency determinations under sections 382, 387(a) and 387(c), and 403, must have written reasons and be preceded by public notice and an opportunity for a hearing in

Section 395. Review of agency determinations

Section 395 provides for the review of Federal agency determinations regarding the respective rights of the Government and a Federal employee-inventor in situations in which the agency determines not to acquire all rights in an invention or where an aggrieved employee-inventor requests review. The review is to be conducted according to regulations issued under section 399.

Section 396. Reassignment of rights

Section 396 establishes a right in the Government to adjust the rights acquired from a Federal employee-inventor on the basis of evidence that the granting of greater rights to the employee-inventor is necessary to correct an inequitable allocation of rights.

Section 397. Incentive awards program

Subsection (a) provides Federal agencies the right to establish an incentive awards program which is intended to monetarily recognize Federal employee-inventors, stimulate innovative creativeness, and encourage disclosures of inventions which in turn will enhance the possibility of utilization through the Federal licensing program established under subchapter III.

Subsection (b) sets forth the criteria for making an award.

Subsection (c), (d), and (e) establish the procedures for making awards of different amounts.

Subsection (f) provides that acceptance of a cash reward constitutes an agreement by the employee-inventor that any use by the Government of an invention for which an award is made does not form the basis of a further claim of any nature against the Government by the recipient, his heirs, or assigns.

Subsection (g) requires that an award should be paid from the fund or appropriation of the agency primarily benefitting.

Section 398. Income sharing from patent licenses

Section 398 authorizes Federal agencies to share income from licensing the Government's patent rights with the employee-inventor.

Section 399. Regulations

Subsection (a) makes the Secretary of Commerce responsible for issuing regulations to implement subchapter II.

Subsection (b) provides that determination concerning a Federal employee's promotion of the employee's invention is subject to regulations to be prescribed by the Secretary of Commerce with the concurrence of the Office of Government Ethics and the Attorney General. The intention is to ensure that a Federal employee will not be prohibited from promoting his own invention if consistent with conflict of interests regulations.

Subchapter III—Licensing of Federally Owned Inventions

Section 400. Covered inventions

Section 400 provides that subchapter III applies to all federally-owned patent rights, including licenses or sublicenses granted or required to be granted by the Government under section 387, upon

Subsection (c) enables an agency to specify reasonable licensing terms whenever, in exercise of its march-in rights, it requires a contractor to grant a license or sublicense.

Section 388. Deviation and waiver

Section 388 permits Federal agencies, to further an agency's mission and the public interest, to deviate from any standard patent rights clause issued under section 390 acquiring more or fewer rights to a contract invention.

Subsection (a) authorizes deviations either on a class basis in accordance with regulations to be issued under section 390, or, unless prohibited by those regulations, under regulations issued by an agency itself. Case-by-case deviations are permitted when authorized by the head of an agency or a designee, and described in the Federal Register. The Committee intends that agencies normally will not deviate and especially so in respect of contracts dealing with the development of defense related technology.

Subsection (b) forbids waiver under any circumstances of the national security and antitrust march-in rights reserved by sections 387(a)(2), 387(a)(4), and 387(c).

Subsection (c) forbids waiver of rights reserved by sections 384(a), and 387(a)(1), (1) in contracts involving co-sponsored, costsharing, or joint venture research to which the Contractor makes a substantial contribution of funds, technology, facilities, or equipment; or (2) in contracts with a contractor whose participation is necessary for the successful accomplishment of an agency mission and such contract cannot be obtained under the standard patent rights clause.

Section 389. Transfer of rights to contractor employees

Section 389 authorized a contractor's employee-inventor to receive some or all of the contractor's rights to a contract invention if the responsible agency and the contractor approve. The corresponding obligations of the contractor under subchapter I then become the obligations of the employee.

Section 390. Regulations and standard patent rights clause

Subsection 390(a) requires the Office of Federal Procurement Policy to direct the issuance of regulations implementing subchapter I, including the establishment of a standard patent rights clause or clauses.

Subsections (b), (c) and (d) require a sharing of the royalties and/or revenues with the Government to pay the Government for Federal funding of research and development. Regulations to be developed may permit waiver of some or all of this payment.

Subchapter II—Inventions of Federal Employees

Section 391. Employee inventions

Section 391 defines "employee inventions" as inventions made by Federal employees.

Section 392. Reporting of inventions

Section 392(a) requires that a Federal employee report to the employee's agency all inventions made while an employee of that

national security circumstances of which it has become aware since the time of contracting that might now require it to deny the contractor an exclusive license in a particular field of use. The contractor should not be denied an exclusive license solely on the basis of facts that were known or reasonably foreseeable by the agency at the time of contracting, the agency normally will deviate from the standard patent rights clause so that the contractor will know at that time that it will not receive an exclusive license to practice a forthcoming invention in a particular field of use.

The antitrust provision of subsection (d)(2) and similar provisions throughout the bill are intended to encompass existing judicial interpretations of activities prohibited by the antitrust laws. This provision does not authorize each agency to create its own body of antitrust law or policy.; but in applying this provision each agency has the authority, subject to court review, to determine whether questionable conduct does or does not violate existing antitrust laws as judicially interpreted.

Subsection (e) provides that, whenever an agency determines that a contractor will not receive an exclusive license in any field of use, it must include in its determination written reasons, and that the contractor has the right of appeal de novo to the United States Court of Customs and Patent Appeals within sixty days after the determination is issued. the Court of Customs and Patent Appeals is given exclusive jurisdiction to affirm, reverse, or modify the agency determination. The burden of proof rests with the agency. Specifically included is the authority for the court to order the responsible agency to issue an exclusive license to the contractor.

Subsection (f) permits the contractor to obtain title to any contract invention in any foreign country in which the contractor agrees to file a patent application, unless the responsible agency determines that the national interest would be affected adversely, which should not occur except in extraordinary circumstances. However, title will be subject to the Government minimum rights under section 386 and march-in rights under section 387. If the contractor does not file a patent application within a reasonable time, then the Government may acquire title to patents on the contract invention.

Section 385. Contractor license

Subsection 385 automatically grants a nonexclusive, royalty free license to each contractor complying with subsection (b) of section 382 to practice the contract invention in all countries in which it neither receives title under subsection (a) of section 383 nor has an exclusive license under subsection (b) of section 384. This nonexclusive contractor license may be revoked by the Government only to the extent necessary to grant an exclusive license under subchapter III. It is expected that, so long as the contractor is pursuing commercialization of the invention under its nonexclusive license, there would be no occasion to grant an exclusive license, and, therefore, no need to revoke the contractor's non-exclusive license. It is also expected that the contractor's license to practice the invention shall include the right to grant sublicenses of the same scope, and on reasonable terms and conditions, to subsidiaries and affiliates within the corporate structure of the contractor's or-

Subchapter I—Contract Inventions

Section 382. "Contract inventions"; reporting

Section 382 defines "contract inventions" and sets forth a contractor's responsibility with regard to a contract invention.

Subsection (a) defines "contract inventions" as "inventions made in the course of or under Federal contracts."

Subsection (b) requires that all contractors provide the responsible Federal agency with timely reports on each contract invention containing sufficient technical information to inform the Government as to the nature of the invention and a list of each country, if any, in which the contractor elects to file a patent application.

The Government is prohibited from publishing or releasing these reports until the earlier of one year from receipt of the invention disclosure or the contractor has had a reasonable time to file a patent application; the Government also must withhold such information from other records or reports. The temporary prohibition on publishing or releasing contractor reports or information is necessary in order to avoid the possible forfeiture of patent protection in some countries. Subsection (c) provides that the responsible agency may deprive a contractor who unreasonably fails to file the reports required by subsection (b) of any or all of the rights it otherwise would have under subchapter I pertaining to the contract invention for which such report has been unreasonably withheld.

Section 383. Allocation of rights—Small businesses and nonprofit organizations

Subsection (a) provides for the acquisition of title to contract inventions by contractors which are either a small business or a nonprofit organization. They would acquire title in each country listed under section (b)(2) of section 382 in which they filed a patent application within a reasonable time; their title would be subject to the Government's minimum rights under section 386 and to march-in rights under section 387.

Subsection (b) provides for acquisition of title to contract inventions by the Government in each country in which a small business or nonprofit organization elects not to file a patent application or fails to file within a reasonable time.

Section 384. Allocation of rights—Other contractors

Subsection (a) provides that a contractor that is not a small business or nonprofit organization will have four and one-half years from the filing of an invention report under section 382(b) to select one or more fields of use which it intends to commercialize or otherwise achieve public use under an exclusive license; an example of such is making the invention available to others for licensing on reasonable terms and conditions. During the four and one-half year period the contractor will have temporary title to the invention, subject to the Government's right under the Act.

Contractors are encouraged to file field of use lists from time to time, and not wait until the end of the 4½ year period. Each filing will be separately reviewed, and title to the patents in question will not pass to the Government until the filing of the final field of use list, or 4½ years, whichever is earlier.

relates to the actual processing of patent applications and the aggregate fees for an application effect the specified 25 percent recovery rate.

Subsection 41(b) would treat design patent processing fees differently than fees for other types of patents. Since the costs to the Office of processing design patent applications are significantly lower and maintenance fees will not be imposed, design patent applicants would be charged fees equal in aggregate to 50 percent of the estimated cost of processing such an application.

Subsection 41(c) requires the payment of maintenance fees three times in a patent's life—six months prior to the fourth, eighth and twelfth anniversaries of the patent's seventeen-year term. As required by the Paris Convention for the Protection of Industrial Property, subsection 41(c) permits late payment during a six-month grace period. Failure to pay an applicable maintenance fee by the end of the grace period would result in expiration of the patent on the date the grace period ends.

Subsection 41(c) also requires the Secretary to establish maintenance fees at levels that recover 30 percent of the costs to the Office for the year in which such maintenance fees are received of processing all applications for patents other than design patents, from filing through disposition by issuance or abandonment, by the fifteenth year following enactment of the Act.

Subsection 41(d) requires the Secretary to establish fees for all other patent-related services and materials at levels which will recover the full costs to the Office of performing those services or providing those materials. Fees would be adjusted as costs vary. Subsection 41(d), however, would maintain the existing subsection 41(a)(9) fee of $50 for providing a depository library with uncertified printed copies of the specifications and drawings for all patents issued in a year.

Subsection 41(e) allows the Commissioner to waive any fee for a service or product provided to a government agency. This authority now is provided in existing subsection 41(c).

Subsection 41(f) limits the adjustment of patent application processing fees and maintenance fees to once every three years.

Subsection 41(g) imposes a notice requirement on effective date of new or adjusted fees.

CREDITING OF FEE REVENUE TO THE PTO APPROPRIATION ACCOUNT

Section 3 of this bill would amend section 41 of title 35, United States Code, by completely rewriting it.

Section 42. Patent and Trademark Office funding

Subsection 42(a) makes all fees for Patent and Trademark Office services and materials payable to the Commissioner of Patents and Trademarks. This provision is carried over from existing section 42.

Subsection 42(b) requires all fee revenues and all Patent and Trademark Office appropriations to be credited to the Patent and Trademark Office Appropriation Account in the Treasury of the United States. At present, Patent and Trademark Office fee revenues are deposited in the general fund of the Treasury and are unavailable for directly funding PTO activities.

the Board of Appeals. Adverse final decisions on reexamination by the Board of Appeals or by the Commissioner could be appealed to the U.S. Court of Customs and Patent Appeals or de novo review of the reexamination decision could be sought in the United States District Court for the District of Columbia.

Section 307. Certificate of patentability, unpatentability, and claim cancellation

Section 307(a) requires the Commissioner at the conclusion of reexamination to cancel any patent claim found to be unpatentable, confirm any patent claim found to be patentable, and add any amended or new claims found to be patentable.

Subsection 307(b) provides intervening rights similar to those provided by patent law section 252 with respect to reissued patents. Thus, a person practicing a patented invention would not be considered an infringer for the period between issuance of an invalid patent and its conversion through reexamination to a valid patent.

It ordinarily is in the interests of both parties to expedite the disposition of patent litigation. A party discovering new prior art on which reexamination might be conducted ordinarily will reveal it promptly to the patent owner. If he does not, the court may exercise its equity power by allowing the patent owner to request reexamination later in the trial, or precluding the party from relying on such prior art or by other appropriate measures.

ADMINSTRATIVE FEE SETTING

Section 2 of the bill would restructure and modernize completely section 41 of title 35, United States Code—the basic fee provision of the patent laws.

The committee recognizes that the PTO, in issuing patents and registering trademarks, performs a significant public service in implementing the Federal patent and trademark laws and also confers benefit on private persons who seek to protect their intellectual property. The Committee, therefore, supports the premise that patent applicants and those seeking to register trademarks should bear a significant share of the cost of operating the PTO by the payment of fees. However, the Committee has made certain amendments to the formula which empowers the Commissioner to set these fees. Certain costs of operating the PTO confer no direct benefit on applicants but rather go to meet the responsibility of the Federal Government to have a PTO in order to execute the law. For example, the cost of executive direction and administration of the office, including the Office of the Commissioner and certain agency offices involved with public information, legislation, international affairs and technology assessment. Maintaining the public search room confers a general public benefit, as does the maintenance of the patent files in depository libraries. The contribution to the World Intellectual Property Organization relative to the Patent Cooperation Treaty is a treaty obligation. These costs should be paid for entirely from appropriated funds.

The committee inserted the word "actual" in this legislation to describe those costs which should be assumed 50 percent by applicants. Patent applicants should bear through the payment of fees, 25 percent in processing of fees, and 25 percent in maintenance

In developing the amendment to this section, it should be noted that the subcommittee worked closely with the Science and Technology Committee, and it is particularly grateful to members of that Committee for their contributions.

Finally, sections 9 and 10 of the bill, as reported by the subcommittee, reflect amendments which are designed to respond to the criticism of witnesses who argued both that the Patent Office ought to be independent of the Department of Commerce and that the present search files of the Office fail to effectively utilize modern computer technology.

SECTION-BY-SECTION ANALYSIS

REEXAMINATION

Section 1 of the bill would add seven new sections to the patent laws to establish a patent reexamination system. These seven new sections would constitute chapter 30 of title 35 of the United States Code.

Section 301. Citation of prior art

Section 301 provides statutory authority for the citation to the Patent and Trademark Office (PTO) of prior art consisting of patents or printed publications which a person believes to have a bearing on the patentability of any claim of a particular patent. Section 301 would make clear that a citation of prior art is not to be included in the official file on a patent unless the citer submits a written statement as to the pertinency and applicability to the patent. Section 301 also would require the PTO to keep the identity of the citer of prior art confidential if the citer so requests in writing. Without the confidentiality provision, competitors of a patent owner might be reluctant to cite prior art to the PTO.

Section 302. Request for reexamination

Section 302 provides authority for any person to seek reexamination by the PTO on the basis of the patents and printed publications cited under section 301. Such a person need not be the one who cited prior art under section 301. The person could even be the patentee.

Section 302 requires that the person seeking reexamination pay a fee established by the Secretary. Under section 2 of this bill, the Secretary would be required to establish a fee to recover the estimated average cost of a reexamination proceeding. Thus, those who request reexamination would pay for it.

Section 302 requires the Commissioner to send a copy of the request promptly to the patent owner, as shown by the records of the Office. The patent owner would have to see that his ownership and current address are recorded properly so that the request is not sent to a previous owner.

Section 303. Determination of issue by Commissioner

Subsection 303(a) requires the Commissioner to determine if a "substantial new question of patentability" is raised in connection with any claims of the patent against which a patent or printed publication is cited and to order reexamination upon a positive de-

will permit efficient resolution of questions about the validity of issued patents without recourse to expensive and lengthy infringement litigation. This, in turn, will promote industrial innovation by assuring the kind of certainty about patent validity which is a necessary ingredient of sound investment decisions.

The cost incurred in defensive patent litigation sometimes reaches $250,000 for each party, an impossible burden for many smaller firms. The result is a chilling effect on those businesses and independent inventors who have repeatedly demonstrated their ability to successfully innovate and develop new products. A new patent reexamination procedure is needed to permit the owner of a patent to have the validity of his patent tested in the Patent office where the most expert opinions exist and at a much reduced cost. Patent office reexamination will greatly reduce, if not end, the threat of legal costs being used to "blackmail" such holders into allowing patent infringements or being forced to license their patents for nominal fees.

The reexamination of issued patents could be conducted with a fraction of the time and cost of formal legal proceedings and would help restore confidence in the effectiveness of our patent system.

The bill does not provide for a stay of court proceedings. It is believed by the committee that stay provisions are unnecessary in that such power already resides with the Court to prevent costly pretrial maneuvering which attempts to circumvent the reexamination procedure. It is anticipated that these measures provide a useful and necessary alternative for challengers and for patent owners to test the validity of United States patents in an efficient and relatively inexpensive manner.

Sections 2 through 5 of H.R. 6933 provide for a new fee structure for the patent office. At the present time patent examination fees are established by statute, last revised in 1967. When enacted, the present fee structure provided revenues which met 67 percent of the costs of operating the Patent Office. Inflation has now reduced the impact of those fees to the point where they generate only 27 percent of the funding necessary to the operation of the office.

At the present time patent fees average about $239 per application.[6]

H.R. 6933 would entirely revise the fee structure. It grants the Commissioner the power to establish fees. As introduced, the bill provided that the fee level would be revised yearly to generate 60 percent of the revenue needed to operate the office. However, the subcommittee amended the bill to reduce that level to 50 percent. This was in response particularly to criticism from small business and individual inventors that the fees would place too great a burden on those groups.

In order further to soften the impact on small business and individual inventors, the fees are to be paid in four installments over the life of the patent. This system, known as maintenance fees, is in use in most advanced industrial nations and has the advantage of deferring payment until the invention begins to return revenue to the inventor.

[6] Testimony of Honorable Sidney Diamond, Commissioner of Patents, April 24, 1980—p. 50.

appear to be improving. There has been an especially significant decline in total U.S. expenditures for research and development, as measured in constant dollars since 1970.[3] Since the primary means of improving productivity lies in the creation of new technologies, the decline in expenditures for research and development is especially significant to the health of the overall economy.

Testimony presented to the Subcommittee on Courts, Civil Liberties and the Administration of Justice also indicates that the Federal Government is bearing an ever increasing share of the burden of financing basic research and development.[4] This means that the effective commercialization of government financed research is becoming an ever more important issue for those who are concerned with industrial innovation. The patent policies governing the utilization of government funded reseach will become even more important when the research expected to flow out of recent Congressional enactments such as the Energy Security Act of 1980[5] begins to produce usable new technologies. It is highly likely that the fuel which powers our automobiles and the boilers which heat our homes will owe part of their chemical composition or mechanical operation to patented research developed in part by government funds. At the present time U.S. companies desiring to use government funded research to develop new products and processes must confront a bewildering array of 26 different sets of agency regulations governing their rights to use such research. This bureaucratic confusion discourages efficient use of taxpayer financed research and development.

History of the Bill

The crisis in U.S. productivity and the governmental role in it has not gone unnoticed, however. In May of 1978 the President called for a major policy review of industrial innovation as the key to increased productivity in the United States. This White House call to action resulted in the creation of an advisory Committee of more than 150 senior representatives from the industrial, public interest, labor, scientific, and academic communities. The work of the Advisory Committee was overseen by a cabinet level coordinating committee chaired by the Secretary of Commerce. The Committee studied all the areas in which federal government policy impacts on productivity and innovation in the private sector. These fields of inquiry included: economic and trade policy; environmental, health and safety regulations; anti-trust enforcement; federal procurement policies, and federal patent and information policies.

When the advisory committee issued its 300 page report last year, a key segment contained recommendations on government patent policy. These recommendations, in turn, were received by the President, and formed the basis of a major legislative proposal which was conveyed to the Congress. Special emphasis was placed on the role of the patent system and the patent policy regarding government funded research in promoting industrial innovation. These patent related recommendations were forwarded to the Com-

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[3] *Science Indicators*, National Science Board, 1976, pp. 108–115.

[4] Testimony of Pindaros Roy Vagelos, M.D., before the subcommittee on Courts, Civil Liberties and the Administration of Justice April 15, 1980, transcript p. 14.

[5] P.L. 96-294.