

The Flyleaf

Friends of Fondren Library

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PATENTS

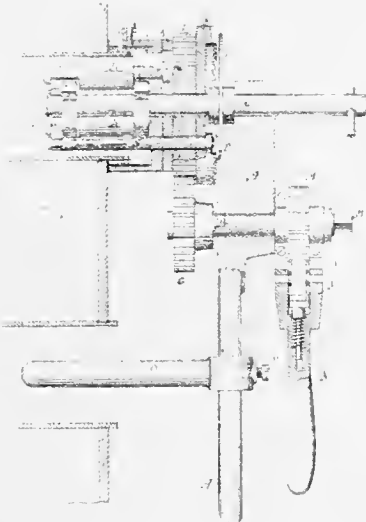
GRANTED DEC. 18, 1888

RISE UNIVERS

10 1981

LIBRARY

1359-1,751-1. MACHINE FOR EXPANDING AND TRIMMING TUBES
 JAMES ANDERSON, Lone Island City, N. Y. Filed June 8, 1888. Serial
 No. 275,484. No model.



Claim. - 1. In a machine for expanding and trimming boiler tubes, the shafts having the cams C¹ and C² and handle H, in combination with the rollers R, disk F, and L, and handle A, as and for the purposes herein shown and described.

2. In a machine for expanding and trimming boiler tubes, the cup shaped disk L, having the cutters L, in combination with the bolts S, seats R, and gear G, substantially as and for the purposes herein shown and set forth.

3. In a machine for expanding boiler-tubes, the shaft V with the cutters V, the disk F, and cam C¹, in combination with the rollers R, gear G, and shaft H, handle A, and arm D, substantially as herein shown and described.

1359-1,751-2. TOP PROP. LEO ANDERSON, Paris Tex. assignor of two-thirds to E. E. Norman, and J. L. Terrill. Filed Sept. 28, 1888. Serial No. 275,687. No model.



Claim. - 1. In a top prop, the combination with the stud A, of a block B, secured thereon, and an arm E, pivoted in the block and extending from the block.

2. In a top prop, the combination with the plate D, provided with the lug C, and lug G, of plate C, provided with opening H, and an arm E, pivoted upon the lug.

3. In a top prop, the combination of a block B, a supporting arm

mounted thereon, and a strap passing over the arm of the block, secured to the block.

4. In combination with plate D, provided with the lug C, and lug G, plate C, provided with an opening H, and with an arm E, provided with a seat F, and with a screw G, adapted to fit upon the hub, and a bolt or screw, L, arranged substantially as shown.

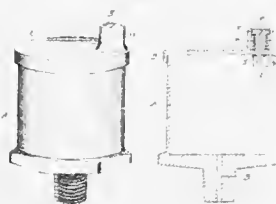
1359-1,755 (1). FRUIT PICKER. FRANK ANSLEY and GEORGE W. ANSLEY, Medford Lake, Wash. Filed May 7, 1888. Serial No. 273,051. No model.



Claim. - The combination with the pole, the ferrule, the flexible head C, and the fingers loosely connected with the said head, of the cap enclosing the end of the ferrule and having openings to permit the passage of the fingers, and having notches on its inner side substantially as described, and for the purpose specified.

2. The combination of the pole, the ferrule, the flexible head having an annular collar, the fingers having a hinged connection with the head by having their ends passed through openings in the said collar and bent about its edge, and the cap having radial notches on its inner side, and having radial openings in its end and on its side slots in its rim, substantially as set forth.

1359-1,755 (2). OIL-CUP. LUTHER B. BAILEY, London, Ontario, Canada. Filed Aug. 27, 1887. Serial No. 248,082. No model. Patented in Canada June 7, 1887. No. 26,895.



Claim. - The body A, having a passage, B, in combination with a cap C, formed with flange D, and having ease to stud-joint E, formed with shoulders E¹ and E², and spring F, substantially as described and for the purpose specified.

1359-1,755 (3). PNEUMATIC CASH-CARRIER APPARATUS. MARTIN BARRÉ, Cambridge, Mass., assignor by mesne assignments, to the Meteor Despatch Company, Portland, Me. Filed Oct. 6, 1887. Serial No. 251,831. No model.

Claim. - 1. The combination with a pneumatic tube for transmission therethrough of a carrier or other article, provided with an opening in the side of said tube for the insertion and removal of the carrier or other article, of a spring in said tube opposite to said opening, substantially as and for the purpose specified.

2. The combination with a pneumatic tube for transmission therethrough of a carrier or other article, provided with an opening in the side of said tube for the insertion and removal of the carrier or other article, and a door or covering to said opening, adapted to slide up and down over said opening, of a valve adapted to open and close said tube to the air from the operating bellows or other air source.

1359-1,755 (4)



RICE UNIVERSITY FONDREN LIBRARY

Founded under the charter of the university dated May 18, 1891, the library was established in 1913. Its present facility was dedicated November 4, 1949, and rededicated in 1969 after a substantial addition, both made possible by gifts of Ella F. Fondren, her children, and the Fondren Foundation and Trust as a tribute to Walter William Fondren. The library recorded its half-millionth volume in 1965; its one millionth volume was celebrated April 22, 1979.

THE FRIENDS OF FONDREN LIBRARY

The Friends of Fondren Library was founded in 1950 as an association of library supporters interested in increasing and making better known the resources of the Fondren Library at Rice University. The Friends, through members' dues and sponsorship of a memorial and honor gift program, secure gifts and bequests and provide funds for the purchase of rare books, manuscripts, and other material which could not otherwise be acquired by the library.

THE FLY LEAF

Founded October 1950 and published quarterly by The Friends of Fondren Library, Rice University, Houston, Texas 77001, as a record of Fondren Library and Friends activities, and of the generosity of the library's supporters.

Lauren Brown, Acting Editor; Joe Roquemore, Associate Editor. Editorial Committee: Dr. David Minter, Chairman; Mrs. Mary Woodson Dennis; Mrs. Diana Hobby; Mrs. Sally McQueen Smith. Photographs by James Aronovsky and Jenny Taylor.

FRIENDS OF FONDREN LIBRARY

Board of Directors, 1980-81

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Mrs. Vernon Knight, Vice-President, Membership
Mr. Thomas D. Smith, Vice-President, Programs
Mrs. Sally M. Smith, Secretary
Mr. John T. Cabaniss, Treasurer
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Dr. Walter W. Isle, Chairman, University Committee on the Library (ex-officio)

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Mr. Berry D. Bowen	Dr. Allen J. Matusow
Mrs. Mary W. Dennis	Dr. Larry V. McIntire
Mrs. David J. Devine	Dr. David L. Minter
Dr. Wilfred S. Dowden	Mrs. Robert E. Moore
Mr. John F. Heard	Mrs. Richard O. Wilson
Mrs. William P. Hobby, Jr.	

COVER: Part of the December 18, 1888 issue of the Official Gazette of the United States Patent Office. This page reflects the wide diversity of inventions recorded by the U.S. Patent and Trademark Office.

A L T T E R T O T H E F R I E N D S

Dear Friends,

If we look back on our past year's service to the library we can, with a large measure of satisfaction, count many achievements in our efforts to support the Fondren. Thanks to the hard work, imagination, and generosity of our members we have increased our endowment fund, enhanced the library's resources through our members' dues and our memorial and honor gift program, and increased both university and community awareness of the many services provided by the Fondren through our sponsorship of a splendid variety of programs and special events.

Today, in a time of straitened budgets and increased operating costs, our work for the library is more important than ever before. And as our Annual Report for last year indicates (*Flyleaf*, 30:2, p.), we have grown to a point of transition—to a stage in our efforts on behalf of the library at which we must define clearly both our immediate goals and the direction our association will follow in the future. From a wide array of tasks we must decide which ones are appropriate or possible for the Friends of Fondren to undertake.

To define and assess the possibilities open to us we will work with other friends organizations and study their specific accomplishments and failures—their diverse activities, which are valuable sources of information and new ideas. In the months ahead, we will also try to diversify our own membership and work to foster a climate of cooperation and mutual activity between the Friends and other support groups on campus.

The coming months, then, offer us an exciting opportunity to rededicate ourselves to our long tradition of service to the Library and to make the Friends an even stronger, more effective organization. I look forward to working with you to make this year a memorable one for all of us and for the Fondren Library.

Yours sincerely,

Walter S. Baker, Jr.
President

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REPORT TO THE MEMBERS OF THE FRIENDS OF FONDREN LIBRARY, 1979-1980

Sally McQueen Smith

Sally McQueen Smith is the new Secretary for the Friends' Board of Directors.

The following report summarizes the Friends' services to the Fondren Library at Rice University for the 1979-80 year. The Friends were established thirty years ago for the purpose of enhancing and making better known the resources of the library. Our efforts have focused on sponsoring activities in the library, providing direct financial support through our dues account and the gifts and memorials fund, participating in university-sponsored fund-raising efforts on behalf of the library, and publishing *The Flyleaf* to provide a record of Friends' and library activities.

We believe that the past year has been a good one for the Friends and for the Fondren Library—the Friends have added to their membership, expanded their services to the Fondren, and increased their financial support of the library. Such progress would not have been possible, however, without the generous efforts of Dr. Samuel M. Carrington, the Fondren Library staff, and members of the faculty and university administration—their interest and support have been invaluable.

Programs and Activities

The Friends' programs in the past year highlighted a variety of disciplines served by the Fondren. Our Christmas program featured a performance by the Shepherd Singers, led by Shepherd School Dean Allan Ross. In a February lecture, Dr. John Freeman of the university's space physics department addressed one of our nation's most serious problems—how to meet America's energy needs. He outlined for the Friends the joint research projects on solar power being conducted by Rice with N. A. S. A.

The Friends held other traditional programs during the year. Early in the fall, the board hosted an afternoon reception for the Fondren staff. A homecoming reception in the Woodson Research Center brought together friends and other homecoming alumni for a Saturday morning brunch and a look at the Rice memorabilia kept in the Fondren's archives. The Friends also assisted the Fondren staff in sponsoring the library's thirtieth birthday party and held a year-end business meeting to introduce next year's board.

Perhaps the most exciting of our programs last year was our spring benefit. Several committees of volunteers organized and promoted "Fondren Saturday Night," an open house held on April 12 in the library to honor Rice writers. Over three hundred people attended the party, which raised \$3,700 for the Friends' endowment fund. The fund was established in 1977 by Mr. and Mrs. H. Malcolm Lovett, whose generous support of the Fondren is well known to the Rice community. Highlights of the evening included a performance by a Shepherd School string quartet, a concert version of the Weiss Tabletop Theater's 1980 production of George Greanias' "Hello, Hamlet," and a drawing to award signed copies of the writers' works as door prizes. Writers attending the party and donating copies of their works for the drawing were novelists Max Apple, June Davis Arnold, William Goyen, and David Westheimer; essayist and writer of fiction John Graves; poet and literary critic Monroe K. Spears; and emeritus professor of English George G. Williams. Writers unable to attend the party—playwright George Greanias, poet John Irwin, novelist Larry McMurtry, and novelist and playwright J.P. Miller—donated copies of their works for the drawing. Novelist Jerome Charyn also donated a copy of his most recent work for auction.

In the coming year we hope to continue to draw diverse audiences to Friends' programs, our chief means of making known the Fondren's resources and services. We plan also to co-sponsor a number of programs with other university affiliate organizations of varied interests. We believe that such programs will acquaint other committed alumni and friends of Rice with our work to support the library. Finally, the Friends hope to sponsor a volunteer program to administer in the library regular book sales, which will replace our periodic past sales.

Membership

We added eighty-nine new names this year to the Friends' membership roster, which currently totals five hundred and nineteen members. The membership drive—which solicited donations in six giving categories, from \$10 Rice student memberships to \$500 benefactor memberships—totaled \$21,945 as of June 30. This figure represents an increase of \$8,483 over last year's \$13,462 in membership donations. Much of our

success in encouraging membership renewals and in expanding our roster stems from our new policy of issuing library cards to members who do not already have them. The Fondren's new computerized circulation made the change practical, and the Friends have responded well to their opportunity to use the library: circulation records show that the Friends are making good use of the library's resources. One additional change also deserves notice: for the first time, the Friends have published their membership list in *The Flyleaf* to acknowledge publicly their members' generosity. We also hope that by introducing our members to one another through publication of the list we will let them know which of their friends we have not invited to join us in our work to support the Fondren Library. Experience has shown us that the most successful membership drives begin with lists of people who especially appreciate a good library. With the help and suggestions of Friends' members we will con-

tinue to increase our membership. Finally, we will be changing to a revolving membership program so that all memberships will be good for a full year from the date of joining. This last change will afford us greater flexibility in soliciting new members throughout the year instead of just in the fall.

Gifts from the Membership Fund

This year the Friends donated substantially from their membership fund to help individual Friends purchase the Julian Sorell Huxley Papers for the Fondren. Sir Julian Huxley (1887-1975), whose *Evolution: The Modern Synthesis* is the seminal work for neo-Darwinian evolutionary research, was a member of President Edgar Odell Lovett's original faculty at Rice's opening in 1912. A brilliant theoretical and practical thinker in diverse fields—embryonic development, cancer research, ecology, and the philosophical



Part of the membership assembled at the Friends' Annual Meeting (June 8, 1980).

implications of science, for example—Huxley planned and organized Rice's first biology department. Huxley left Houston for England in 1916 to fight in World War I, but he maintained his ties to Rice throughout his career. Individual donations from Mr. and Mrs. John F. Heard and Mr. and Mrs. C.M. Hudspeth—as well as gifts from Mrs. Hardin Craig, Jr. and Mr. Harris Masterson, III—were combined with a two-year, \$10,000 gift from the Friends to purchase this truly outstanding collection.

Gifts and Memorials Fund

The Friends' gifts and memorials fund received \$68,849 this year, compared to \$53,800 in 1978-79. Expenditures from the fund are summarized below in the financial section, but two commitments from the fund are particularly noteworthy: this year the fund issued challenge grants to the Jones School of Admin-

istration and the Shepherd School of Music for \$5,000 and \$10,000, respectively. These amounts were committed to building the business and music collections in the Fondren on the condition that the business and music schools raise equal sums of money for the same purpose.

The Flyleaf

Final alterations in the new format of *The Flyleaf*, the Friends' quarterly journal, were completed this year, and we are pleased to note that *The Flyleaf* won two awards from the Council for the Advancement and Support of Education. They include an achievement award from CASE's regional competition and an "Exceptional Achievement" award in the national competition. Soon after the fall semester begins both awards will be displayed in the exhibit case of the Fondren's first floor foyer.

FINANCIAL SUMMARY

MEMBERSHIP ACCOUNT

Receipt of membership dues		\$ 21,945
Less expenditures:		
Staff and student salaries	\$ 8,487	
Publications	2,611	
Gifts	5,065	
Programs	6,400	
Membership drive	1,510	
Library circulation cards	2,500	
Office supplies	<u>1,091</u>	<u>27,664</u>
Expenditures over receipts		5,719
Account balance, July 1, 1979		<u>9,360</u>
Account balance, July 1, 1980		<u><u>\$ 3,641</u></u>

GIFTS AND MEMORIALS

Receipt of gifts		\$ 68,849
Less expenditures and commitments:		
Book purchases authorized by Librarian	\$73,139	
Woodson Research Center	12,290	
Reference books fund	6,037	
Johnston endowment for English literature	<u>12,110</u>	<u>103,576</u>
Expenditures over receipts		34,727
Account balance, July 1, 1979		<u>87,514</u>
Account balance, July 1, 1980		<u><u>52,787*</u></u>

*A \$10,000 challenge grant, issued for the purpose of building the Fondren's music collection, has been accepted by the Shepherd School of Music.

Respectfully submitted,

The Board of Directors

July 21, 1980

THE TASKS AT HAND: A NEW BOARD WITH A PROGRAM FOR THE YEAR

Joe Roquemore

If an early start bodes well for new projects, the Friends' Board of Directors has opened the year well: during September the Board approved a full calendar of activities and plans for 1980-81. Led by Mrs. Vernon Knight, the membership committee has begun efforts to build on last year's dramatic increase in Friends' memberships. This fall the committee will adopt a year-long revolving program of monthly membership renewal and solicitation and will ask all of the Friends for names of people who might wish to join us in our support of the library.

Program plans for the year should promote Mrs. Knight's goal of increasing the scope and diversity of Friends' memberships. Under the direction of Thomas D. Smith, the program committee has planned a series of events that will emphasize the library's function as a center for a wide variety of stimulating activities that will foster lasting ties with other support groups on campus. On the morning of November 8, the Friends and the Rice Engineering Alumni will host a homecoming reception in the Woodson Research Center to honor Jennings A. Massingill (Electrical Engineering, Class of 1942), this year's recipient of Rice's Outstanding Engineering Alumnus Award. The Friends and the library staff, working with local representatives of the General Electric Corporation, have arranged an exhibit depicting the evolution and future of electricity as a major source of energy and chronicling Mr. Massingill's central role in the development of steam turbine generators. On November 23, the Friends will sponsor a lecture focusing not on the present state of technology but on its origins in the distant past. Walter M. Widrig, Associate Professor of Art History, will describe Rice's archaeological project in Italy, which has uncovered an unbroken history—spanning six centuries—of suburban life in ancient Rome. Supervised by Dr. Widrig and his colleague, Professor Philip Oliver-Smith, Rice students perform most of the actual excavation during the summer each year.

On Sunday afternoon, January 25, the Friends and the Shepherd Society will present a musicale featuring selections from Gilbert and Sullivan operas performed by students from the Shepherd School of Music. The Friends wish to co-sponsor a similar program with the Shepherd Society each year and hope that this mutual effort will become a traditional part of each group's annual calendar.

Finally, in late March or early April the Friends will again offer a spring benefit to raise money for the Friends' Endowment Fund and to generate public interest in the many resources and services provided by the library. The event will be similar in scope to last year's benefit, but will be organized around a different theme.

1980-1981, then, presents the Friends and the Board of Directors with a busy and demanding agenda. But in their efforts to support the Fondren and work with other university organizations, the Friends will benefit this year from the commitment, imagination, and varied experience of six new board members.

Mr. Berry D. Bowen (B.A., 1975; B.F.A., 1977), who will serve on the membership committee, is an associate in the Trial Law Section of Andrews Kurth Campbell & Jones. Mr. Bowen is new to the Friends, but his undergraduate career and recent graduate work here have provided him with valuable understanding of the library's many strengths as well as a strong commitment to meeting its future needs and goals. In addition to his work for the Friends, he is a co-chairman of the Houston Symphony Society Fund Raising Drive and a member of Volunteer Lawyers and Accountants for the Arts.

Mrs. Mary Woodson Dennis (B.A., 1961) brings to the Board a long family tradition of service to Rice and to the library as well as broad experience from her work in several community organizations. Her work as travel editor for *Houston Home and Garden* makes her a valuable addition to the *Flyleaf* editorial committee. A Rice University Associate, she is a Bayou Bend Docent and has served as an Annual Fund volunteer.

Mrs. David J. Devine (Carolyn, B.A., 1952) an active participant in university and Friends' affairs, will surely strengthen the program committee's efforts to increase community appreciation of the library. She supervised preparations for "Fondren Saturday Night," last spring's highly successful benefit honoring Rice writers. A member of the Owl Club since its inception and of the Society of Rice University Women, she is also a Junior League volunteer and does extensive work for various church and community organizations in Houston. Mrs. Devine has enduring ties to Rice through her family, which counts three generations of Rice alumni and a son who is currently a junior in Wiess College and a letterman on the Owl baseball team.

Mr. John F. Heard (B.A., 1940), a partner with Baker & Botts, is a long-time Friends member and a generous Fondren Library donor. A member of the Founder's Club and a Rice University Associate, he has served on the executive committee of the Rice University Fund Council and is Past President of the Alumni Association. In addition to his work on the Friends' planning and finance committee, Mr. Heard serves on the Board of Directors of the St. Joseph's Hospital Foundation, is a member and former Vice-President of the National Association of Railroad Trial Counsel (Southwest Region), and a former Chairman of the Harris County March of Dimes.

Mr. Frank G. Jones (B.A., 1963), a new member of the Friends, is a Board Certified Specialist in civil trial law and a partner with Fulbright & Jaworski. Mr. Jones's family has a long history of association with Rice—his mother, brother, and sister are all Rice alumni. A member of the American Bar Association, the State Bar of Texas, and a Fellow of the Texas Bar Foundation, he will serve on the membership committee.

Dr. Larry V. McIntire, Professor of Chemical Engineering, has been at Rice since 1966 and is an Adjunct Professor of Internal Medicine at the University of Texas Medical School in Houston. One of Rice's most distinguished faculty members, he brings to the

Board an ongoing dedication to maintaining the excellence of the Fondren Library: for three years he served on the University Committee on the Library and was chairman in 1976. Dr. McIntire—who will serve on the Friends' membership committee—is an advisor to the Undergraduate Student Chapter of the American Institute of Chemical Engineers, a member of the University Committee on Admissions, and serves on the Executive Board of the Rice University Faculty Club.

Finally, Mrs. Sally McQueen Smith, a Member at Large of last year's Board, is the new secretary for the Board and will serve on the Friends' executive committee. She holds a B.A. in English from Vassar College, and as a contributing editor of *Houston Home and Garden* she brings rigorous training and practical experience to the *Flyleaf* editorial committee. Mrs. Smith also serves on the Board of directors of Houston's Child Guidance Center and is Secretary for the Plumeria Society of America.

The new Board certainly faces a year of hard work and challenges, but it is a year of opportunity as well—the opportunity to support further the library's efforts to extend its services to an expanding university and an ever-widening circle of people from the Houston community.



New members of the Friends' Board of Directors. From left to right: Mr. Berry D. Bowen; Mr. Frank G. Jones; Mrs. Mary Woodson Dennis; Mr. John F. Heard; Dr. Larry V. McIntire, Jr. (not pictured: Mrs. Carolyn J. Devine)

THE PROPERTY OF CREATIVE MINDS: A LOOK AT PATENTS, TRADEMARKS, & COPYRIGHTS

Barbara G. Kile

Barbara Kile is the Government Documents and Microforms Librarian at the Fondren Library.

The ideas, thoughts, and creations issuing from the human mind are expressed in an almost infinite number of ways. They surface as writings, paintings, sculpture, and—to include a few other possibilities—as mechanical inventions, films, advertisements, and ornaments. Once these ideas are expressed they are considered “intellectual property” and enter an area of the law where their legal status usually takes the form of copyright, patent, or trademark.

Two hundred years ago the framers of the U.S. Constitution realized the importance of protecting intellectual property and wrote in Article I, Section 8, Clause 8 of the Constitution that the “Congress shall have Power . . . to promote the Progress of Science and useful Arts, by securing for limited Times to Authors and Inventors the exclusive Right to their respective Writings and Discoveries.” Congress, accordingly, has enacted copyright, patent, and trademark laws to encourage disclosure of creative effort and thus promote progress. But legal protection of an individual’s “exclusive right” to benefit from “Writings and Discoveries” can create a form of monopoly that limits production of many useful products. Congress, therefore, has needed to balance the individual’s right to benefit from creative efforts against the consumer’s right to benefit fully from the disclosure of new ideas. Thus, copyrights, patents, and trademarks are granted for a limited time only.

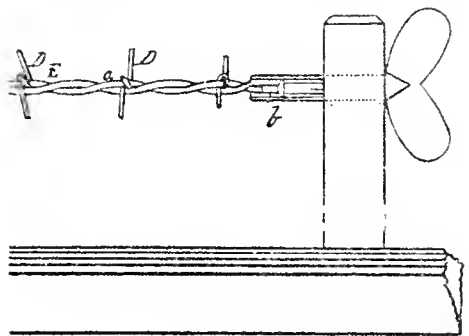
To the writers, inventors, thinkers, and manufacturers who wish to be rewarded for their labor and ingenuity, it sometimes appears that they must operate in a world which has become baffling and full of bureaucratic red tape. Perhaps H.E. Martz’s resigned, weary remark most succinctly describes that world: “He who builds a better mousetrap these days runs into material shortages, patent-infringement suits, work stoppages, collusive bidding, discount discrimination—and taxes.” All of this raises the questions, what exactly is a patent or copyright or trademark and is the entire field of government documents really the pointless, bureaucratic briar patch that Martz’s complaint implies?

At times it does seem that these forms of protection for intellectual property are pushing one into a bureaucratic briar patch, but if they are examined more closely some logic and reason can be discerned.

Patents, for example, did not begin with the U.S. Government. The first patents were granted to cooks in southern Italy in 600 B.C. as an incentive to create new recipes and tastier dishes. In the fifteenth century the Venetian Republic enacted an ordinance relating to patents and the first English patents statute was enacted in 1624. In America, the first U.S. Patent Act was adopted in 1790; soon afterward, George Washington granted the first patent to one Samuel Hopkins—for a process of making soap.

Since 1790, numerous patents have had a crucial impact on American life. They include the cotton gin by Eli Whitney, Cyrus McCormick’s reaper, the revolving gun by Samuel Colt, the sewing machine by Elias Howe, the manufacture of iron and steel by Henry Bessemer, Alexander Graham Bell’s telephone, the zipper by Whitcomb T. Judson, and the telegraph by Guglielmo Marconi. One might also mention the phonograph by Thomas Edison, the internal combustion engine by Rudolf Diesel, the airplane by the Wright brothers, and the rocket by Robert Goddard. A glimpse of an invention familiar to all of us is shown as it first appeared in the *Official Gazette of the United States Patent Office*:

157.124. WIRE-FENCES. Jos. F. Glidden,
De Kalb, Ill. [Filed Oct. 27, 1873.]



A twisted fence-wire having the transverse spur-wire *D* bent at its middle portion about one of the wire strands *a* of said fence-wire, and clamped in position and place by the other wire strand *z*, twisted upon its fellow, substantially as specified.

Jos. F. Glidden's barbed wire (from the November 24, 1874 issue)

In the nineteenth century most patents were granted for farm tools, industrial machinery, and railroad equipment. Such well-known figures as Abraham Lincoln and Mark Twain were also granted patents. Lincoln's patent (no. 6,469) for an "Improved method of lifting Vessels over Shoals" was granted in 1849. He described the use of expansible buoyant chambers placed at the sides of a vessel to float it over shoals. Patent no. 121,992 was granted in 1871 to Mark Twain for an "Adjustable and Detachable Strap for Garments." The first woman to receive a patent was Mary Kies of Connecticut, who invented a device for weaving straw with silk or thread.

Twentieth-century patent activity has centered around sporting goods and toys, plastics and packaging, data processing, and pollution control. Today patents are moving from energy utilization devices (labor-saving) to energy conservation devices.

Patents can be assigned by statute for "any new and useful process, machine, manufacture or composition of matter or any new and useful improvement thereof." "Useful" in this context means the subject matter has a useable purpose and is operative; patents are not granted for perpetual motion machines. "Process" is defined as means for production rather than the resulting product. "Machine" is a means of attaining a certain result, i.e., an apparatus. The article or end product is covered by "manufacture". "Composition" of matter refers to chemical compositions, which may include mixtures of existing ingredients as well as new compounds.

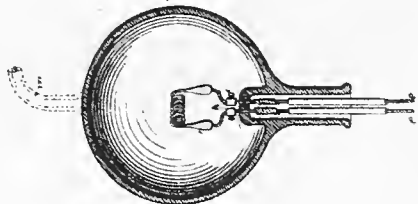
For an invention to be patented, it must be both original and useful. To meet these requirements, the subject matter must be substantially different from what has been used or described before. Substitutions of one material for another or changes in size do not meet these requirements. Small advances or changes that would be obvious to a person having ordinary skill in the same field of work are not patentable. Other things that cannot be patented include printed matter, ideas, methods of doing business, scientific principles, and naturally occurring substances.

The U.S. Government grants three types of patents: the utility patent is granted for 17 years in the general and mechanical, chemical, or electrical field; a design patent is granted for 3½, 7, or 14 years and is limited to the ornamental appearance of an object; the plant patent, finally, is granted for 17 years and covers inventions or discoveries or the asexual reproduction of any distinct and new varieties.

Since the first patent was granted in 1790, the U.S. Patent and Trademark Office has issued over four million patents. Included in this number are many interesting patents which have been granted to Rice faculty and alumni. For example, Herbert Allen (Class of 1929 and former Chairman of the Board of Trustees of Rice) holds many patents related to the oil

industry; he has generated much publicity with his new patent for the "Screwpull" corkscrew. Sam Worden (Class of 1935) holds the patent for the Worden Gravity Meter. Dr. Norman H. Ricker (Class of 1916 and former faculty member) was granted several patents for inventions related to electromagnetic exploration. He also invented the paper cone loud-speaker used in movie theaters and television and radio receivers all over the world. As recently as September 2, 1980, Larry Russel (Class of 1964) was issued patent no. 4,220,176 for "Methods and Apparatus for Controlling Fluid Flow."

223,898. ELECTRIC LAMP. THOMAS A. EDISON, Menlo Park, N. J. Filed Nov. 4, 1879.



(Claim.—1. An electric lamp for giving light by incandescence, consisting of a filament of carbon of high resistance, made as described, and secured to metallic wires, as set forth.

Thomas A. Edison's electric lamp (from the January 27, 1880 issue)

Copies or abstracts of all of these patents are available for anyone to use at Fondren Library. Fondren has been designated as a depository library of the U.S. Patent and Trademark Office; as a result all the material necessary to conduct a patent search is available on the Rice campus. This is important not only for saving patrons of the Fondren Library a significant amount of time and expense, but also because patents are valuable research tools, providing information on a particular scientific or technological development, and serve to indicate prior state-of-the-art as a context for new development.

Trademarks also protect intellectual property. The basis for trademark laws is Article I, Section 8, Clause 3—the Commerce Clause of the U.S. Constitution: "The Congress shall have power . . . to regulate Commerce with foreign Nations, and among the several States, and with the Indian Tribes."

Early marks on goods included Etruscan cheese with the sign of the moon, pottery found at archaeological sites and the trademark granted to George Washington for his own brand of flour.

The basic federal legislation in the area of trademarks is the Lanham Trademark Act of 1946. It defines trademark as "any work, name, symbol, or device or any combination thereof adopted and used by a manufacturer or merchant to identify his goods and distinguish them from those manufactured or sold

by others." Only marks used in interstate commerce can be protected with a federal trademark.

Trademarks are granted by the U.S. Patent and Trademark Office in three forms. Service marks are used to identify services and include such familiar names as "McDonalds," "TWA," "Delta," "Hertz," and "Avis." Certification marks identify goods or services meeting certain qualifications. "Underwriters Lab" is an example of a certification mark. Goods, services, or members of a collective organization are covered by collective marks—for example "AFL-CIO" or names and insignia of Greek letter fraternities and sororities.

Registrations are maintained by filing a declaration of use during the sixth year after registration and by renewal every twenty years as long as the mark is in use. Non-use of the mark for two years is considered abandonment.



TAYLOR & TAYLOR
SAN FRANCISCO

The San Francisco firm of Taylor & Taylor enjoyed a distinguished reputation for book designing, printing, and publishing during the first half of the twentieth century. The company's trademark, designed by Frederic W. Goudy in 1915, was inspired by the work of French and Spanish printers of the late fifteenth and early sixteenth centuries.

One of the most important methods used for protecting intellectual property is the copyright. The first recorded copyright was granted to John of Spira in Venice in 1469 for the five-year right to print the epistles of Cicero and Pliny. Until the invention of printing, there was no difficulty in limiting copying. The task of copying manuscripts was so laborious, it limited itself. Copying was truly "a labor of love."

As publishing by means of the printing press became widespread in Europe, however, it became necessary to protect the rights of authors. The first definitive copyright statute in England, the Statute of Anne (1710), provided authors legal protection for their works. It has been the basis of most copyright legislation since that time.

In 1790 the U.S. Government enacted the first copyright law which covered maps, charts, and books. This law was amended several times to include additional subject matter—musical compositions, photographs and art work. In 1909 the law was rewritten to consolidate the previous law and amendments and added coverage to other works. This law remained on the books until 1976 when the Copyright Revision Act was Passed. The new copyright law provides protection from the moment of creation and does away with the old system, which allowed for both common law and federal law protection.

The new act states that "original work of authorship fixed in any tangible medium of expression" may be covered. There are seven broad categories of works: literary works; musical works plus accompanying words; dramatic works plus accompanying music; pantomines and choreographic works; pictorial, graphic, and sculptural works; motion pictures, and other audiovisual works; and sound recordings.

A work must be creative, original, and fixed in some tangible form in order to meet statutory requirements for copyright. Protection continues until fifty years after the author's death, and fifty years from the death of the last author in a joint work. In works for hire or anonymous works in existence before 1978, protection lasts for seventy-five years from publication or one hundred years from the creation of the work, whichever is the shorter period of time.

The 1976 revision of the Copyright Law has had an impact on libraries and their patrons: it restricts the number of copies of publications that can be made and their use. However, since government publications themselves are not copyrighted, they may be used and copied freely.

Returning to H.E. Martz's remark, there are indeed many steps in securing protection for one's own intellectual property. However, patents, trademarks, and copyrights allow for the wide dissemination of one's creative efforts, and by providing a window to the world for these creative efforts, they do much to promote progress and future development.

FONDREN'S GOVERNMENT DOCUMENTS DEPARTMENT

Research on patents, trademarks, and copyrights is centered in the Government Documents and Microforms Department, located on the mezzanine of the Fondren Library. Fondren's strong holdings in this field of research is based on its status as a government depository library.

As a government depository library, Fondren receives selective publications from the federal government and Texas state government. Fondren does not pay for these publications but agrees to certain conditions concerning access and maintenance of the collection. Among the agency publications received by Fondren are those from the U.S. Department of

Energy, the U.S. Geological Survey, the U.S. Environmental Protection Agency, topographic maps from the Defense Mapping Agency, Congressional materials—and in particular the publications of the U.S. Patent and Trademark Office.

The staff of the Government Documents and Microforms Department is prepared to instruct users in the handling of various reference sources and microfilm readers associated with research on patents, trademarks, and copyrights. Barbara Kile, the Head of Government Documents and Microforms, is shown below using the technical reports from the U.S. Department of Energy.



GIFTS TO THE FONDREN LIBRARY

February 1, 1980—
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The Friends sponsor a gifts and memorials program for the Fondren Library which provides their members and the community at large a way to remember or honor friends and relatives. It also provides the Fondren a way to acquire books and collections beyond the reach of its regular budget. All gifts to the Fondren through the Friends' gift program complement the library's university subsidy.

Funds donated through the Friends are acknowledged by the library to the donor and to whomever the donor indicates. Gifts can be designated in honor or memory of someone or on the occasion of some signal event such as birthdays, graduation or promotions. Bookplates are placed in volumes before the volumes become part of the library's permanent collection.

For more information about the Friends' gift program, you can call Gifts and Memorials or the Friends' office (527-4022). Gifts to the Friends of Fondren qualify as charitable donations.

The Friends and the Fondren Library are grateful to acknowledge the following gifts, donations to the Friends' fund and donations of books, periodicals, and other materials to the Fondren. All gifts enhance the quality of the library's collection and enable the Fondren Library to serve more fully an ever-expanding university and Houston community.

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