



**First Telephone
Alexander Graham Bell**

Significant

Historical Patents

of the
United States

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by Jim Bieberich, Patent Historian

Exhibit B: None of these US Patents can be located on EAST using only the information given.

Individual patents listed herein are available for delivery by ftp, email or regular mail.
The complete Historical Collection of Patents is available on CDROM. Ordering Details

Patent #	Type	Granted	Claims	Inventor	Description
?	U	07/31/1790	1	Samuel Hopkins	First U.S. Patent Pot Ash
	U	03/14/1794	1	Eli Whitney	Cotton Gin Cotton Gin
	U	06/26/1797	1	Charles Newbold	Cast Iron Plough Cast Iron Plough
	U	06/21/1834	1	Cyrus H. McCormick	Reaper Reaper
	U	02/25/1836	8	Samuel Colt	Revolver Revolving Gun
	U	07/13/1836	3	J. Ruggles	First Numbered Patent Traction Wheels
	U	02/25/1837	1	Thomas Davenport	Electric Motor Electric Motor
	U	04/20/1837	6	Erastus B. Bigelow	Power Carpet Loom Loom
	U,d	08/29/1839	9	Samuel Colt	Revolver

					Improvement in Fire-Arms and in the Apparatus Used Therewith
	U	06/20/1840	9	Samuel F. B. Morse	Morse Code Improvement in the Mode of Communicating Information by Signals by the Application of Electro-Magnetism
	U	06/15/1844	3	Charles Goodyear	Vulcanized Rubber Improvement in India-Rubber Fabrics
	U R	09/10/1846 03/19/1861	5 8	Elias Howe, Jr.	Sewing Machine Improvement in Sewing-Machines Sewing Machine Improvement in Sewing-Machines
	U	11/04/1846	3	Benjamin Franklin Palmer	Artificial Limb Artificial Leg
	U	11/12/1846	1	Charles T. Jackson William T. G. Morton	Anesthesia Improvement In Surgical Operations
	U	12/05/1846	1	Christian Frederick Schonbein	Guncotton Improvement in Preparation of Cotton-Wool and Other Substances as Substitutes for Gunpowder
	U	07/24/1847	4	Richard M. Hoe	Rotary Printing Press Improvement in Rotary Printing-Presses
	U	04/10/1849	1	Walter Hunt	Safety Pin Dress-Pin
	U	10/05/1852	5	Lorenzo L. Langstroth	Beehive Beehive
	U	10/09/1855	2	Isaac M. Singer	Shuttle Sewing Machine Improvement In Sewing-Machines
	U	08/19/1856	1	Gail Borden, Jr.	Condensed Milk Improvement in Concentration of Milk
	U	06/23/1857	1	William Kelly	Iron and Steel Manufacturing Improvement in the

					Manufacture of Iron
	U	11/22/1859	1	James J. Mapes	Artificial Fertilizer Improvement in Fertilizers s
	U	01/15/1861	4	Elisha Graves Otis	Elevator Improvement in Hoisting Apparatus
	U	01/29/1861	8	Linus Yale, Jr.	Lock Lock
	U	11/04/1862	5	Richard J. Gatling	Machine Gun Improvement in Revolving Battery-Guns
	U	11/20/1866	1	Pierre Lallement	Bicycle Improvement in Velocipedes s
	U,a	05/26/1868	1	Alfred Nobel	Dynamite Improved Explosive Compound
	U	06/23/1868	5	C. Latham Sholes Carlos Glidden Samuel W. Soule	Typewriter Improvement in Type-Writing Machines
	U	07/14/1868	3	Alvin J. Fellows	Spring Tape Measure Improvement in Tape Measures
	U	06/08/1869	3	Ives W. McGaffey	Vacuum Cleaner Improved Sweeping-Machine
	U	01/17/1871	4	Andrew Smith Hallidie	Cable Car Improvement in Endless- Wire-Rope Ways
	U	01/28/1873	1	Louis Pasteur	Pasteurization Brewing Beer and Ale
	U	11/24/1874	1	Joseph F. Glidden	Barbed Wire Improvement in Wire-Fences
	U	03/07/1876	5	Alexander Graham Bell	Telephone Improvement In Telegraphy
	U	08/14/1877	6	Nicolaus August Otto	Internal Combustion Engine Improvement in Gas-Motor Engines
	U	02/19/1878	4	Thomas Alva Edison	Phonograph Improvement in Phonograph or Speaking Machines
	U,c	01/27/1880	4	Thomas Alva Edison	First Incandescent Light Electric Lamp

	U	02/17/1880	5	Emile Berliner	Microphone Microphone
	U	02/08/1881	2	Frederic E. Ives	Halftone Printing Plate Method of Producing Impressions in Line or Stipple from Photographic Negatives
	U	08/26/1884	15	Ottmar Mergenthaler	Linotype Matrix-Making Machine
	U	08/10/1886	8	Elihu Thomson	Electric Welder Apparatus for Electric Welding
	U	10/11/1887	22	Dorr E. Felt	Adding Machine Adding-Machine
	U	11/08/1887	3	Emile Berliner	Phonograph Record Gramophone
	U	11/15/1887	1	Carl Gassner, Jr.	Dry Cell Battery Galvanic Battery
	U	05/01/1888	1	Nikola Tesla	A. C. Induction Motor Electrical Transmission of Power
	U	08/21/1888	44	William S. Burroughs	Calculator Calculating-Machine
	U	09/04/1888	41	George Eastman	Roll Film Camera Camera
	U	01/08/1889	2	Herman Hollerith	Computer Art of Compiling Statistics
	U	04/02/1889	2	Charles M. Hall	Aluminum Manufacture Process of Reducing Aluminum from its Fluoride Salts by Electrolysis
	U	06/17/1890	3	Hiram Stevens Maxim	Smokeless Gunpowder Manufacture of Explosives
	U	02/02/1892	4	William Painter	Bottle Cap Bottle-Sealing Device
	U	02/28/1893	9	Edward G. Acheson	Carborundum Production of Artificial Crystalline Carbonaceous Materials
	U	03/14/1893	13	Thomas Alva Edison	Motion Picture Apparatus for Exhibiting Photographs of Moving

					Objects
	U	08/29/1893	7	Whitcomb L. Judson	Zipper Clasp Locker or Unlocker for Shoes
	U	11/05/1895	6	George B. Selden	Automobile Road-Engine
	U	04/28/1896	9	Joseph S. Duncan	Addressograph Addressing-Machine
	U R,d	07/13/1897 06/04/1901	56 24	Guglielmo Marconi	Radio Transmitting Electrical Signals Radio Transmitting Electrical Impulses and Signals and Apparatus Therefor
	U R	08/13/1897 01/12/1904	6 2	Thomas A. Edison	Motion Picture Camera Kinetographic Camera Motion Picture Film Kinetoscopic Film
	U	08/09/1898	9	Rudolf Diesel	Diesel Engine Internal-Combustion Engine
	U	03/14/1899	4	Ferdinand Graf Zepplin	Dirigible Navigable Balloon
	U	02/27/1900	1	Felix Hoffmann	Aspirin Acetyl Salicylic Acid
	U	11/13/1900	3	Valdemar Poulsen	Magnetic Tape Recorder Method of Recordings and Reproducing Sounds or Signals
	U	09/09/1902	4	John P. Holland	Submarine Submarine Boat
	U	11/24/1903	24	Clyde J. Coleman	Electric Starter Means for Operating Motor- Vehicles
	U	08/02/1904	89	Michael J. Owens	Automatic Glass Bottle Manufacturing Glass-Shaping Machine
	U	02/02/1906	5	Willis H. Carrier	Air Conditioning Apparatus for Treating Air
	U	05/22/1906	18	Orville Wright Wilbur Wright	Airplane Flying-Machine

	U	01/15/1907	6	Lee De Forest	Triode Vacuum Tube Device for Amplifying Feeble Electrical Currents
	U	12/07/1909	8	Leo H. Baekeland	Bakelite Condensation Product and Method of Making Same
	U	09/27/1910	6	Fritz Haber Robert Le Rossignol	Ammonia Production Production of Ammonia
	U	10/10/1911	6	Henry Ford	Automotive Transmission Transmission Mechanism
	U	11/14/1911	7	Ernst F. W. Alexanderson	High Frequency Generator High-Frequency Alternator
	U	06/18/1912	7	Peter Cooper Hewitt	Mercury Vapor Lamp Apparatus for the Electrical Production of Light
	U,d	12/30/1913	34	William D. Coolidge	Tungsten Filament Light Bulb Tungsten and Method of Making the Same for Use as Filaments of Incandescent Electric Lamps and for Other Purposes
	U	07/07/1914	8	Robert H. Goddard	Rocket Rocket Apparatus
	U	10/06/1914	18	Edwin H. Armstrong	Wireless Receiver Wireless Receiving System
	U	11/03/1914	1	Mary P. Jacob	Brassiere Brassiere
	U	04/18/1916	13	Irving Langmuir	Gas Filled Electric Lamp Incandescent Electric Lamp
	U	10/31/1916	33	William D. Coolidge	X-Ray Tube Vacuum Tube
	U	09/17/1918	64	Elmer A. Sperry	Gyroscopic Compass Gyroscopic Compass
	U	04/18/1922	5	John Arthur Johnson	Adjustable Wrench Wrench
	U	06/20/1922	26	Glenn H. Curtiss	Hydroplane Hydroaeroplane
	U	02/23/1926	21	Thomas Midgley, Jr.	Ethyl Gasoline Method and Means for Using Motor Fuels
	U	08/12/1930	2	Clarence Birdseye	Frozen Food

	U	08/26/1930	18	Philo T. Farnsworth	Television Television System
	U	03/08/1932	15	Igor Sikorsky	Helicopter Aircraft, Especially Aircraft of the Direct Lift Amphibian Type and Means of Constructing and Operating The Same
	U	12/26/1933	10	Edwin H. Armstrong	FM Radio Radio Signaling System
	U	02/20/1934	17	Ernest O. Lawrence	Cyclotron Method and Apparatus for the Acceleration of Ions
	U	11/26/1935	4	Vladimir K. Zworykin	Television Method of and Apparatus for Producing Images of Objects
	U	11/03/1936	20	Leopold D. Mannes Leopold Godowsky, Jr.	Color Film Color Photography m
	U	02/16/1937	28	Wallace H. Carothers	Nylon Linear Condensation Polymers
	U	04/11/1939	5	Ernest H. Volwiler Donalee L. Tabern	Pentothal (General Anesthetic) Thiobarbituric Acid Derivatives
	U	07/02/1940	7	Enrico Fermi Edoardo Amaldi Bruno Pontecorvo Franco Rasetti Emilio Segre	Radioactive Isotopes Process for the Production of Radioactive Substances
	U	10/06/1942	27	Chester F. Carlson	Xerography Electrophotography
	U	09/07/1943	6	Paul Muller	DDT - Insecticide Devitalizing Composition of Matter
	U	07/16/1946	15	Frank Whittle	Jet Engine Aircraft Propulsion System and Power Unit
	U	10/19/1948	23	Donald L. Campbell Homer Z. Martin Eger V. Murphree Charles W. Tyson	Fluid Catalytic Cracking Method of and Apparatus for Contacting Solids and Gases

	U,c	10/03/1950	40	John Bardeen Walter H. Brattain	Transistor Three-Electrode Circuit Element Utilizing Semiconductor Materials
	U	02/27/1951	116	Edwin H. Land	Instant Photography Photographic Product Comprising a Rupturable Container Carrying a Photographic Processing Liquid
	U	09/25/1951	34	William Shockley	Junction Transistor Circuit Element Utilizing Semiconductive Material
	U	02/09/1954	48	George R. Stibitz	Modern Digital Computer Complex Computer
	U	06/22/1954	13	Andrew Alford	Radio Navigation System Localizer Antenna System
	U	12/12/1951	13	Richard Buckminster Fuller	Geodesic Dome Building Construction
	U	10/05/1954	7	Frank B. Colton	First Oral Contraceptive Estradiene Compounds
	U	01/11/1955	18	Lloyd H. Conover	Tetracycline Tetracycline
	U,c	05/17/1955	8	Enrico Fermi Leo Szilard	Atomic Reactor Neutronic Reactor
	U	05/17/1955	34	An Wang	Magnetic Core Memory Pulse Transfer Controlling Devices
	U	09/13/1955	4	George De Mestral	Velcro Velvet Type Fabric and Method of Producing Same
	U	12/17/1957	4	R. J. Taylor	Rocket Engine Rocket Powered Aerial Vehicle
	U	05/20/1958	9	Robert C. Baumann	Satellite Satellite Structure
	U	12/23/1958	4	Charles P. Ginsburg Shelby F. Henderson	Video Tape Recorder Magnetic Tape Recording and Reproducing System
	U	12/28/1958	10	Charles H. Townes	Maser Production of Electromagnetic

					Energy
	U	03/22/1960	11	Arthur L. Shawlow Charles H. Townes	Laser Masers and Maser Communication System
	U,c	10/11/1960	8	Charles P. Ginsburg Shelby F. Henderson	Wideband Magnetic Tape System Broad Band Magnetic Tape System and Method
	U	04/25/1961	10	Robert N. Noyce	Semiconductor Device-And- Lead Structure Semiconductor Device-And- Lead Structure
	U	06/11/1963	17	Maxime A. Faget Andre J. Meyer, Jr. Robert G. Chilton William S. Blanchard, Jr. Alan B. Kehlet Jerome B. Hammack Caldwell C. Johnson, Jr.	First Manned Space Capsule- Mercury Space Capsule
	U	01/14/1964	6	Gerhard M. Sessler James E. West	Electret Microphone Electroacoustic Transducer
	U	11/10/1964	12	Glenn T. Seaborg	Americium (Element 95) Element 95 and Method of Producing Said Element

Key:

Patent #: The patent number assigned by the U.S. Patent Office

Type: U=Utility R=Reissue D=Design T=Trademark NA=Not Available, a=assignment, d=disclaimer, c=correction

Granted: The day the Patent Office granted the patent

Claims: The number legal claims inventor makes for protect him invention

Inventor: Name of inventor(s) to whom the patent was granted

Description: Commonly known invention name is listed in red. The actual invention name is listed in blue.

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