

MAJOR INVENTIONS

DATE	INVENTION	INVENTOR	COUNTRY
c. 250 B.C.	Water screw	Archimedes	Greek
c. 161 B.C.	Quadrant	Hipparchus	Greek
c. 50 B.C.	Water wheel with gears	Vitruvius	Roman
c. 25 B.C.	Screw presses	Vitruvius	Roman
c. 66 A.D.	Dioptra (surveyors)	Hero of Alexandria	Roman
1450	Adjustable type mold (printing press)	Johann Gutenberg	Germany
c. 1496	Power driven spindle	Leonardo da Vinci	Italian
c. 1496	Rolling mill	Leonardo da Vinci	Italian
c. 1496	Screw cutting lathe	Leonardo da Vinci	Italian
1589	Knitting machine	William Lee	England
1590	Compound microscope	Zacharius Jansen	Dutch
1593	Thermometer	Galileo Galilei	Italian
1609	Refracting telescope	Galileo Galilei	Italian
1620	Screw printing press	William J. Blaeu	Dutch
1620	Astronomical telescope (Keplers)	Christopher Schriener	German
1630	Micrometer	William Gascoigne	English
1636	Adding machine	Blaise Pascal	French
1642	Barometer	Evangelista Torricelli	Italian
1643	Air pump	Otto Von Guericke	German
1654	Pendulum clock	Christian Huygens	Dutch
1656	Reflecting telescope	Sir Isaac Newton	England
1668	Multiplied machine	G. W. Von Leibnitz	German
1671	First steam engine	Denis Papin	French
1690	(using a piston)		
1700	Steam propelled three-wheeled carriage	Richard Argnot	French
1709	Coke burning iron furnace	Abraham Darby	England
1714	Typewriter	Henry Mill	England
1714	Mercury thermometer	G. D. Fahrenheit	German
1717	Diving bell	Edmund Halley	England
1725	Stereotyping	William Ged	Scotland
1740	Steel crucible process	Robert Huntsman	England
1746	Leyden jar	John Bevis	England
1749	Chronometer	John Harrison	England
1754	Heliometer	John Dolland	England
1756	Achromatic lens	John Dolland	England
1760	Lightning rod	Benjamin Franklin	United States
1764	Spinning jenny	James Hargreaves	England
1765	Steam engine (condensing)	James Watt	Scotland
1769	Throttle spinning	Richard Arkwright	England
1769	Steam engine perfected	James Watt	Scotland
1776	First U. S. submarine	David Bushnell	United States
1777	Circular wood saw	Samuel Miller	England
1779	Spinning jenny improved	Samuel Compton	England
1780	Bifocal lens	Benjamin Franklin	United States
1783	Gas balloon	J. E. and E. M. Montgolfier	French
1784	Cast iron plow	James Small	Scotland
1785	Power loom	Edmund Cartwright	England

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1785	Parachute	Francois Blanchard	French
1786	Threshing machine	Andrew Meikle	Scotland
1786	First U. S. steamboat	John Fitch	United States
1793	Cotton gin	Eli Whitney	United States
1795	Hydraulic press	Joseph Bramah	England
1796	Lithography	Aloys Senefelder	German
1796	Cast iron plow improved	Charles Newbold	United States
1800	Electric battery	Alessandro Volta	Italian
1804	Rocket	Sir William Congreve	England
1804	Food canning process	Nicolas Appert	French
1805	Electroplating process	Luigi Brugnatelli	Italian
1807	Steamboat	Robert Fulton	United States
1808	Electric arc light	Sir Humphry Davy	England
1810	Breech loading rifle	John M. Hall	United States
1811	Steam printing press	Friedrich Konig	German
1812	Storage battery	J. B. Ritter	German
1814	Steam locomotive	George Stephenson	England
1815	Stethoscope	Rene Laennec	French
1819	Modern cast iron plow	Jethro Wood	United States
1819	Galvanometer	J. S. Schweigger	German
1820	Calculating machine	Charles Babbage	England
1822	Multicolored printing	Peter Force	United States
1822	Platen printing press	Daniel Treatwell	United States
1822	Typesetter	William Church	United States
1824	Portland cement	Joseph Aspdin	United States
1825	Improved steam locomotive	George Stephenson	England
1825	Electromagnet	William Sturgeon	England
1828	Hot air blast furnace	J. B. Neilson	Scotland
1830	Sewing machine	B. Thimonnies	French
1831	Flanged railroad rail	Robert L. Stevens	United States
1833	Reaper	Cyrus H. McCormick	United States
1835	Revolver	Samuel Colt	United States
1836	Telegraph	Samuel F. B. Morse	United States
1838	Steam hammer	James Nasmyth	Scotland
1837	Photography	Louis Daguerre	French
1844	Vulcanized rubber	Charles Goodyear	United States
1845	Pneumatic tire	Robert W. Thompson	England
1846	Sewing machine improved	Elias Howe	United States
1846	Guncotton	C. F. Schonbein	Germany
1847	Rotary printing press	Richard H. Hoe	United States
1850	Electric locomotive	Charles G. Page	United States
1851	Refrigerating machine	John Gorrie	United States
1852	Gyroscope	Jean Foncault	French
1852	Airship	Henri Giffard	French
1853	Condensed milk	Gail Borden	United States
1853	Electrolysis process	Michael Faraday	England
1855	Safety matches	J. E. Lundstrom	Sweden
1855	Bunsen burner	Robert W. Bunsen	Germany
1856	Bessemer steel process	Sir Henry Bessemer	England
1858	Refrigerator	Ferdinand Carre	French
1858	Cable car	E. A. Gardner	United States
1859	Gas engine	Jean Lenoir	French
1860	First electric lamp	Joseph W. Swan	England
1861	Steam elevator	Elisha G. Otis	United States
1861	Motion picture projector	Coleman Sellers	United States
1862	Gatling gun	Richard J. Gatling	United States

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1864	Pullman sleeping car	George M. Pullman	United States
1865	Bicycle	Pierre Lallement	French
1866	Dynamite	Alfred B. Noble	Sweden
1866	Open hearth steel process	Sir William Siemens	England
1866	Self-propelled torpedo	Robert Whitehead	England
1869	Railway air brake	George Westinghouse	United States
1873	Quadruplex telegraph	Thomas A. Edison	United States
1876	Telephone	Alexander G. Bell	United States
1876	Four-cycle gas engine	Nikolaus A. Otto	German
1877	Glider	Otto Lillenthal	German
1877	Phonograph	Thomas A. Edison	United States
1879	Cathode ray tube	Sir William Crookes	England
1879	Cash register	James Ritty	United States
1879	Incandescent lamp	Thomas A. Edison	United States
1879	Color photography	Frederick E. Ives	United States
1881	Motor car	F. A. J. Loffler	German
1884	Fountain pen	Lewis E. Waterman	United States
1884	Linotype	Ottmar Mergenthaler	United States
1884	Automobile	Gottlieb Daimler	German
1885	Kodak camera	George Eastman	United States
1888	Diesel engine	Rudolf Diesel	German
1892	A.C. electric motor	Nikola Tesla	United States
1892	Photoelectric cell	Julius Elster	German
1895	Wireless telegraphy	Cuglielmo Marconi	Italian
1895	First successful submarine	John P. Holland	United States
1895	Caterpillar tractor	Benjamin Holt	United States
1900	Rigid airship	Ferdinand Von Zeppelin	German
1900	Airplane	Wright brothers	United States
1903	Practical electron tube	Sir John Fleming	England
1904	First wireless-transmitted photo	Arthur Korn	German
1905	Gyroscopic compass	Elmer A. Sperry	United States
1907	Radio vacuum tube	Lee De Forest	United States
1907	Plastics	Leo H. Baekeland	United States
1911	Air conditioning	Willis H. Carrier	United States
1911	Hydroplane	Glenn H. Curtis	United States
1913	Radio receivers	R. A. Fessenden	Canada
1913	Talking motion pictures	Ernst Alexandenos	United States
1913	Geiger counter	Thomas A. Edison	United States
1913	Ramjet engine	Hans Geiger	German
1914	Improved radio transmitter	Rene Lorin	French
1916	X-ray tube	Ernst Alexanderson	United States
1925	Television	William D. Coolidge	United States
		John L. Baird	Scotland
1926	First liquid propelled rocket	Charles F. Jenkins	United States
1928	Autogiro	R. W. Goddard	United States
1931	Cyclotron	Juan de la Cierva	Spain
1932	Pulse jet engine	Ernest O. Lawrence	United States
1935	Radar	Paul Schmidt	German
1939	Helicopter	Sir Robert Watt	Scotland
1945	Atom bomb	Igor Sikorski	United States
1952	Hydrogen bomb	U. S. scientists	
1957	First man-made satellite	U. S. scientists	United States
1958	Laser beam (first built in 1960)	U. S. and Russian scientists	
1962	Tiros (first weather satellite)	U. S. scientists	
1962	Telestar (first television satellite)	U. S. scientists and industry	