

Inventions and their Inventors

A

- Vitaly Abalakov (1906–1986), Russia – [camming devices](#), [Abalakov thread](#) (or V-thread) gearless ice climbing anchor
- Ernst Karl Abbe (1840–1905), Germany – [Condenser \(microscope\)](#), [apochromatic lens](#), [refractometer](#)
- Hovannes Adamian (1879–1932), [USSR/Russia](#) – tricolor principle of the [color television](#)
- Samuel W. Alderson (1914–2005), U.S. – [Crash test dummy](#)
- Alexandre Alexeieff (1901–1982), Russia/France – [Pinscreen](#) animation (with his wife [Claire Parker](#))
- Rostislav Alexeyev (1916–1980), Russia/USSR – [Ekranoplan](#)
- Randi Altschul (born 1960), U.S. – Disposable [cellphone](#)
- Bruce Ames (born 1928), U.S. – [Ames test](#) (Cell biology)
- Giovanni Battista Amici (1786–1863), Italy – [Dipleidoscope](#), [Amici prism](#)
- Ruth Amos (born 1989), UK – [StairSteady](#)
- Mary Anderson (1866–1953), U.S. – [windshield wiper](#) blade
- Momofuku Ando (1910–2007), Japan – [Instant noodles](#)
- Hal Anger (1920–2005), U.S. – [Well counter](#) (radioactivity measurements), [gamma camera](#)
- Anders Knutsson Ångström (1888–1981), Sweden – [Pyranometer](#)
- Ottomar Anschütz (1846–1907), Germany – [single-curtain focal-plane shutter](#), [electrotachyscope](#)
- Hermann Anschütz-Kaempfe (1872–1931), Germany – [Gyrocompass](#)
- Virginia Apgar (1909–1974), U.S. – [Apgar score](#) (for newborn babies)
- Nicolas Appert (1749–1841), France – [canning](#) ([food preservation](#)) using glass bottles, see also [Peter Durand](#)
- Archimedes (c. 287–212 BC), Greece – [Archimedes' screw](#)
- Guido of Arezzo (c. 991–c. 1033), Italy – [Guidonian hand](#), [musical notation](#), see also [staff \(music\)](#)
- Ami Argand (1750–1803), France – [Argand lamp](#)
- William George Armstrong (1810–1900), UK – [hydraulic accumulator](#)
- Neil Arnott (1788–1874), UK – [waterbed](#)
- Joseph Aspdin (1788–1855), UK – [Portland cement](#)
- John Vincent Atanasoff (1903–1995), Bulgaria/U.S. – electronic digital [computer](#)

Inventions and their Inventors

B

- [Charles Babbage](#) (1791–1871), UK – [Analytical engine](#) (semi-automatic)
- [Tabitha Babbitt](#) (1779–1853), U.S. – [Saw mill circular saw](#)
- [Victor Babeş](#) (1854–1926), Romania – [Babesia](#), the founder of serum therapy
- [Leo Baekeland](#) (1863–1944), [Belgian](#)–American – Velox photographic paper and [Bakelite](#)
- [Ralph H. Baer](#) (1922–2014), German born American – [video game console](#)
- [Adolf von Baeyer](#) (1835–1917), Germany – [Fluorescein](#), synthetic [Indigo dye](#), [Phenolphthalein](#)
- [John Logie Baird](#) (1888–1946), Scotland – World's first working [television](#), 26 January 1926 and electronic [colour television](#)
- [Abi Bakr of Isfahan](#) (c. 1235), [Persia/Iran](#) – mechanical [geared astrolabe](#) with [lunisolar calendar](#)
- [George Ballas](#) (1925–2011), U.S. – [String trimmer](#)
- [Frederick Banting](#) (1891–1941), Canada – [Insulin](#)
- [Vladimir Baranov-Rossine](#) (1888–1944), Russia/France – [Optophonic Piano](#)
- [John Barber](#) (1734–1801), UK – [gas turbine](#)
- [John Bardeen](#) (1908–1991), U.S. – co-inventor of the [transistor](#), with [Brattain](#) and [Schockley](#)
- [Vladimir Barmin](#) (1909–1993), Russia – first rocket [launch complex](#) ([spaceport](#))
- [Anthony R. Barringer](#) (1925–2009), Canada/U.S. – INPUT (Induced Pulse Transient) airborne electromagnetic system
- [Earl W. Bascom](#) (1906–1995), Canada/U.S. – rodeo bucking chute (1916 and 1919), rodeo bronc saddle (1922), rodeo bareback rigging (1924), rodeo riding chaps (1926)
- [Nikolay Basov](#) (1922–2001), Russia – co-inventor of [laser](#) and [maser](#)
- [Émile Baudot](#) (1845–1903), France – [Baudot code](#)
- [Eugen Baumann](#) (1846–1896), Germany – [PVC](#)
- [Trevor Baylis](#) (1937–2018), UK – a [wind-up radio](#)
- [Maria Beasley](#) (1847–1904), U.S. – [barrel-hooping](#) machine, improved [life raft](#)
- [Francis Beaufort](#) (1774–1857), Ireland/UK – [Beaufort scale](#), [Beaufort cipher](#)
- [Arnold O. Beckman](#) (1900–2004), U.S. – electric [pH meter](#)
- [Vladimir Bekhterev](#) (1857–1927), Russia – [Bekhterev's Mixture](#)
- [Josip Belušić](#) (1847–1905), Croatia – electric [speedometer](#)
- [Alexander Graham Bell](#) (1847–1922), UK, Canada, and U.S. – [telephone](#)
- [Nikolay Benardos](#) (1842–1905), [Russian Empire](#) – [arc welding](#) (specifically [carbon arc welding](#), the first arc welding method)
- [Ruth R. Benerito](#) (1916–2013), U.S. – [Permanent press](#) (no-iron clothing)
- [Miriam Benjamin](#) (1861–1947), Washington, D.C. – [Gong and signal chair](#) (adopted by House of Representatives and precursor to flight attendant signal system)
- [William R. Bennett Jr.](#) (1930–2008), together with [Ali Javan](#) (1926–2016), U.S./Iran – [Gas laser](#) (Helium-Neon)
- [Melitta Bentz](#) (1873–1950), Germany – paper [Coffee filter](#)
- [Karl Benz](#) (1844–1929), Germany – the petrol-powered [automobile](#)
- [Hans Berger](#) (1873–1941), Germany – first human [EEG](#) and its development
- [Friedrich Bergius](#) (1884–1949), Germany – [Bergius process](#) (synthetic fuel from coal)

Inventions and their Inventors

- [Emile Berliner](#) (1851–1929), Germany and U.S. – the disc record [gramophone](#)
- [Tim Berners-Lee](#) (born 1955), UK – with [Robert Cailliau](#), the [World Wide Web](#)
- [Marcellin Berthelot](#) (1827–1907), France – [Berthelot's reagent](#) (chemistry)
- [Heinrich Bertsch](#) (1897–1981), Germany – first fully synthetic [laundry detergent](#) "Fewa" (chemistry)
- [Charles Best](#) (1899–1978), Canada – [Insulin](#) (chemistry)
- [Max Bielschowsky](#) (1869–1940), Germany – [Bielschowsky stain](#) (histology)
- [Alfred Binet](#) (1857–1911), France – with his student [Théodore Simon](#) (1872–1961), first practical [Intelligence test](#)
- [Lucio Bini](#) (1908–1964), together with [Ugo Cerletti](#) (1877–1963), Italy – [Electroconvulsive therapy](#)
- [Gerd Binnig](#) (born 1947), with [Christoph Gerber](#), [Calvin Quate](#) and [Heinrich Rohrer](#), Germany/Switzerland/U.S. – [Atomic force microscope](#) and [Scanning tunneling microscope](#)
- [Clarence Birdseye](#) (1886–1956), U.S. – [Flash freezing](#)
- [László Bíró](#) (1899–1985), Hungary – [Ballpoint pen](#)
- [Thor Bjørklund](#) (1889–1975), Norway – [Cheese slicer](#)
- [J. Stuart Blackton](#) (1875–1941), U.S. – [Stop-motion film](#)
- [Otto Blathy](#) (1860–1939), Hungary – co-inventor of the [transformer](#), [wattmeter](#), [alternating current \(AC\)](#) and [turbogenerator](#)
- [John Blenkinsop](#) (1783–1831), UK – [Blenkinsop rack railway system](#)
- [Charles K. Bliss](#) (1897–1985), Austro-Hungary/Australia – [Blissymbols](#)
- [Katharine B. Blodgett](#) (1898–1979), UK – nonreflective glass
- [Alan Blumlein](#) (1903–1942), UK – [stereo](#)
- [David Boggs](#) (born 1950), U.S. – [Ethernet](#)
- [Nils Bohlin](#) (1920–2002), Sweden – the three-point [seat belt](#)
- [Charlie Booth](#) (1903–2008), Australia – [Starting blocks](#)
- [Sam Born](#) (1891–1959), Russia/U.S. – [lollipop-making machine](#)
- [Jagdish Chandra Bose](#) (1858–1937), India – [Crescograph](#)
- [Matthew Piers Watt Boulton](#) (1820–1894), UK – [aileron](#)
- [Seth Boyden](#) (1788–1870), U.S. – nail-making machine
- [Herbert Boyer](#) (born 1936), together with [Paul Berg](#) (1926–), and [Stanley Norman Cohen](#) (1935–), U.S. – created first [Genetically modified organism](#)
- [Willard Boyle](#) (1924–2011), together with [George E. Smith](#) (1930–), U.S. – [Charge-coupled device \(CCD\)](#)
- [Hugh Bradner](#) (1915–2008), U.S. – [Wetsuit](#)
- [Louis Braille](#) (1809–1852), France – [Braille writing system](#), [Braille musical notation](#)
- [Jacques E. Brandenberger](#) (1872–1954), Switzerland – [Cellophane](#)
- [Édouard Branly](#) (1844–1940), France – [Coherer](#)
- [Charles F. Brannock](#) (1903–1992), U.S. – [Brannock Device](#) (shoe size)
- [Walter Houser Brattain](#) (1902–1987), U.S.– co-inventor of the [transistor](#)
- [Karl Ferdinand Braun](#) (1850–1918), Germany – [cathode-ray tube oscilloscope](#)
- [Stanislav Brebera](#) (1925–2012), Czech Republic – [Semtex](#) explosive
- [David Brewster](#) (1781–1868), United Kingdom – [Kaleidoscope](#)

Inventions and their Inventors

- [Rachel Fuller Brown](#) (1898–1980), U.S. – [Nystatin](#), the world's first antifungal antibiotic
- [William C. Brown](#) (1916–1999), U.S. – [Crossed-field amplifier](#)
- [Marie Van Brittan Brown](#) (1922–1999), U.S. – home security system
- [Friedrich Wilhelm Gustav Bruhn](#) (1853–1927), Germany – [Taximeter](#)
- [Nikolay Brusentsov](#) (1925–2014), [USSR](#), [Russia](#) – ternary computer ([Setun](#))
- [Dudley Allen Buck](#) (1927–1959), U.S. – [Cryotron](#), content-addressable memory
- [Edwin Beard Budding](#) (1795–1846), UK – [lawnmower](#)
- [Gersh Budker](#) (1918–1977), [Russia](#) – [electron cooling](#), co-inventor of [collider](#)
- [Edward Bull](#) (1759–1798), [England](#) – Bull engine (a modified steam engine)
- [Robert Bunsen](#) (1811–1899), [Germany](#) – [Bunsen burner](#)
- [Henry Burden](#) (1791–1871), [Scotland](#) and [U.S.](#) – Horseshoe machine, first usable iron [railroad spike](#)

C

- [Robert Cailliau](#) (born 1947), [Belgium](#) – with [Tim Berners-Lee](#), the [World Wide Web](#)
- [Edward A. Calahan](#) (1838–1912), U.S. – Stock [ticker tape](#)
- [Nicholas Callan](#) (1799–1864), [Ireland](#) – [Induction coil](#)
- [Alan Archibald Campbell-Swinton](#) (1863–1930), [Scotland](#) – [Television](#)
- [Tullio Campagnolo](#) (1901–1983), [Italy](#) – [Quick release skewer](#)
- [Charles Cantor](#) (born 1942), U.S. – [Pulsed-field gel electrophoresis](#) (molecular biology)
- [Mario Ramberg Capecchi](#) (born 1937), together with [Sir Martin John Evans](#) (born 1941), and [Oliver Smithies](#) (1925–2017), U.S. – [Gene targeting](#)
- [Arturo Caprotti](#) (1881–1938), [Italy](#) – [Caprotti valve gear](#)
- [Gerolamo Cardano](#) (1501–1576), [Italy](#) – [Cardan grille](#) (cryptography)
- [Philip Cardew](#) (1851–1910), UK – Hot-wire [galvanometer](#)
- [Chester Carlson](#) (1906–1968), U.S. – [Xerographic copier](#)
- [Wallace Carothers](#) (1896–1937), U.S. – [Nylon](#) and [Neoprene](#) (together with [Arnold Collins](#))
- [Antonio Benedetto Carpano](#) (1764–1815), [Italy](#) – [Vermouth](#)
- [Giovanni Caselli](#) (1815–1891), [Italy/France](#) – [Pantelegraph](#)
- [George Cayley](#) (1773–1857), UK – [tension-spoke wheels](#)
- [Anders Celsius](#) (1701–1744), [Sweden](#) – [Celsius](#) temperature scale
- [Vint Cerf](#) (born 1943), together with [Bob Kahn](#) (1938–), U.S. – [Internet Protocol \(IP\)](#)
- [Ugo Cerletti](#) (1877–1963), together with [Lucio Bini](#) (1908–1964), [Italy](#) – [Electroconvulsive therapy](#)
- [Charles Chamberland](#) (1851–1908), [France](#) – [Chamberland filter](#)
- [Min Chueh Chang](#) (1908–1991), together with [Gregory Goodwin Pincus](#) (1903–1967), U.S./China – [Combined oral contraceptive pill](#)
- [Thomas Chang](#) (born 1933), [Canada/China](#) – [Artificial cell](#)
- [Emmett Chapman](#) (born 1936), [US](#) – [Chapman Stick](#)
- [Claude Chappe](#) (1763–1805), [France](#) – [Semaphore line](#)

Inventions and their Inventors

- David Chaum (born 1955), U.S. – [Digital signatures](#), [ecash](#)
- Vladimir Chelomey (1914–1984), [USSR](#) – First [space station](#) ([Salyut](#))
- Pavel Cherenkov (1904–1990), [USSR](#) – [Cherenkov detector](#)
- Evgeniy Chertovsky (born 1902–Unknown), Russia – [pressure suit](#)
- Ward Christensen (born 1945), U.S. – [Bulletin board system](#)
- Ole Kirk Christiansen (1891–1958), Denmark – Creator of [Lego](#)
- Samuel Hunter Christie (1784–1865), UK – [Wheatstone bridge](#)
- Juan de la Cierva (1895–1936), Spain – the [autogyro](#)
- Charles Clagget (1740–1795), UK – Improvements for musical instruments
- Leland Clark (1918–2005), U.S. – [Clark electrode](#) (medicine)
- Georges Claude (1870–1960), France – [neon lamp](#)
- Henri Marie Coandă (1886–1972), Romania – [Coandă effect](#)
- Josephine Cochrane (1839–1913), U.S. – [dishwasher](#)
- Christopher Cockerell (1910–1999), UK – [Hovercraft](#)
- Aeneas Coffey (1780–1852), Ireland – [Coffey still](#)
- Sir Henry Cole (1808–1882), UK – [Christmas card](#)
- Samuel Colt (1814–1862), U.S. – [Revolver](#) development
- Sir William Congreve (1772–1828), UK – [Congreve rocket](#)
- George Constantinescu (1881–1965), [Romania](#) – creator of the [theory of sonics](#), a new branch of [continuum mechanics](#)
- Albert Coons (1912–1978), U.S. – [Immunofluorescence](#) (microscopy)
- Martin Cooper (born 1928), U.S. – [Mobile phone](#)
- Harry Coover (1917–2011), U.S. – [Super Glue](#)
- Lloyd Groff Copeman (1865–1956), U.S. – [Electric stove](#)
- Cornelis Corneliszoon (1550–1607), The Netherlands – wind powered [sawmill](#)
- Alexander Coucoulas (born 1933), U.S. – [Thermosonic bonding](#)
- Wallace H. Coulter (1913–1998), U.S. – [Coulter principle](#)
- Jacques Cousteau (1910–1997), France – co-inventor of the [aqualung](#) and the [Nikonos](#) underwater camera
- John "Jack" Higson Cover Jr. (1920–2009), U.S. – [Taser](#)
- William Crookes (1832–1919), UK – [Crookes radiometer](#), [Crookes tube](#)
- Bartolomeo Cristofori (1655–1731), Italy – [piano](#)
- S. Scott Crump (inv. c. 1989), U.S. – [Fused deposition modeling](#)
- Nicolas-Joseph Cugnot (1725–1804), France – First [steam-powered](#) road vehicle
- William Cullen (1710–1790), UK – First artificial [refrigerator](#)
- Jan Czochralski (1885–1953), Poland / Germany – [Czochralski process](#) (crystal growth)

D

- Nils Gustaf Dalén (1869–1937), Sweden – [AGA cooker](#), [Dalén light](#), [Agamassan](#), [Sun valve](#) for lighthouses and buoys

Inventions and their Inventors

- John Frederic Daniell (1790–1845), UK – Daniell cell
- Corradino D'Ascanio (1891–1981), Italy – Vespa scooter
- Leonardo da Vinci (1452–1519), Italy – helicopter, tanks, and parachutes for safety
- Jacob Davis (1868–1908), U.S. – Riveted jeans
- Humphry Davy (1778–1829), UK – Davy miners lamp
- Joseph Day (1855–1946), UK – the crankcase-compression two-stroke engine
- Lee de Forest (1873–1961), U.S. – Phonofilm, triode
- Fe del Mundo (1911–2011), Philippines – non-electric incubator
- Yuri Nikolaevich Denisyuk (1927–2006), Russia – 3D holography
- Robert H. Dennard (born 1932), U.S. – Dynamic random-access memory (DRAM)
- Miksa Deri (1854–1938), Hungary – co-inventor of an improved closed-core transformer
- James Dewar (1842–1923), UK – Thermos flask
- Aleksandr Dianin (1851–1918), Russia – Bisphenol A, Dianin's compound
- William Kennedy Laurie Dickson (1860–1935), UK – motion picture camera
- Philip Diehl (1847–1913), U.S. – Ceiling fan
- Rudolf Diesel (1858–1913), Germany – Diesel engine
- William H. Dobelle (1943–2004), U.S. – Dobelle Eye
- Johann Wolfgang Döbereiner (1780–1849), Germany – Döbereiner's lamp (chemistry)
- Toshitada Doi (born 1943), Japan, together with Joop Sinjou, Netherlands – Compact disc
- Ray Dolby (1933–2013), U.S. – Dolby noise-reduction system
- Gene Dolgoff (born 1950), U.S. – LCD projector
- Mikhail Dolivo-Dobrovolsky (1862–1919), Poland/Russia – three-phase electric power
- Marion O'Brien Donovan (1917–1998), U.S. – Waterproof diaper
- Hub van Doorne (1900–1979), Netherlands, Variomatic continuously variable transmission
- John Thompson Dorrance (1873–1930), U.S. – Condensed soup
- Amanda Minnie Douglas (1831–1916), writer and inventor (portable folding mosquito net frame)
- Charles Dow (1851–1902), U.S. – Dow Jones Industrial Average
- Mulalo Doyoyo (born 1970), South Africa/U.S. – Cenocell – cementless concrete
- Anastase Dragomir (1896–1966), Romania – Ejection seat
- Karl Drais (1785–1851), Germany – dandy horse, Draisine
- Richard Drew (1899–1980), U.S. – Masking tape
- John Boyd Dunlop (1840–1921), UK – first practical pneumatic tyre
- Cyril Duquet (1841–1922), Canada – Telephone handset
- Alexey Dushkin (1904–1977), Russia – deep column station
- James Dyson (born 1947), UK – Dual Cyclone bagless vacuum cleaner, incorporating the principles of cyclonic separation.

E

- George Eastman (1854–1932), U.S. – roll film
- J. Presper Eckert (1919–1995), U.S. – ENIAC – the first general purpose programmable

Inventions and their Inventors

digital computer

- Thomas Alva Edison (1847–1931), U.S. – [phonograph](#), commercially practical [incandescent light bulb](#), etc.
- Pehr Victor Edman (1916–1977), Sweden – [Edman degradation](#) for [Protein sequencing](#)
- Sir Robert Geoffrey Edwards (1925–2013), United Kingdom – [In vitro fertilisation](#)
- Ellen Eglin (1849–c. 1890), U.S. – [Clothes wringer](#)
- Brendan Eich (born 1961), U.S. – [JavaScript](#) (programming language)
- Willem Einthoven (1860–1927), The Netherlands – the [electrocardiogram](#)
- Benjamin Eisenstadt (1906–1996), U.S. – [Sugar packet](#)
- Paul Eisler (1907–1992), Austria/U.S. – [Printed circuit board](#) (electronics)
- Giorgi Eliava (1892–1937), together with [Félix d'Herelle](#) (1873–1949), France / Georgia – [Phage therapy](#)
- Ivan Elmanov, Russia – first [monorail](#) (horse-drawn)
- Rune Elmqvist (1906–1996), Sweden – implantable pacemaker
- John Haven Emerson (1906–1997), U.S. – [iron lung](#)
- Douglas Engelbart (1925–2013), U.S. – the [computer mouse](#)
- John Ericsson (1803–1889), Sweden – the two screw-propeller
- Emil Erlenmeyer (1825–1909), Germany – [Erlenmeyer flask](#)
- Sir Martin John Evans (born 1941), together with [Mario Ramberg Capecchi](#) (born 1937), and [Oliver Smithies](#) (1925–2017), U.S. – [Knockout mouse](#), [Gene targeting](#)
- Ole Evinrude (1877–1934), Norway – [outboard motor](#)

F

- Charles Fabry (1867–1945), together with [Alfred Perot](#) (1863–1925), France – [Fabry–Pérot interferometer](#) (physics)
- Samuel Face (1923–2001), U.S. – concrete flatness/levelness technology; [Lightning Switch](#)
- Federico Faggin (born 1941), Italy – [microprocessor](#)
- Daniel Gabriel Fahrenheit (1686–1736), The Netherlands – [Fahrenheit](#) temperature scale, [Mercury-in-glass thermometer](#)
- Michael Faraday (1791–1867), UK – electric [transformer](#), [electric motor](#)
- Johann Maria Farina (1685–1766), Germany; [Eau de Cologne](#)
- Myra Juliet Farrell (1878–1957), Australia – stitchless button, [Press stud](#)
- Philo Farnsworth (1906–1971), U.S. – [electronic television](#)
- Muhammad al-Fazari (died 796/806), [Persia](#) – [astrolabe](#)
- John Bennett Fenn (1917–2010), U.S. – [Electrospray ionization](#)
- Henry John Horstman Fenton (1854–1929), UK – [Fenton's reagent](#) (chemistry)
- James Fergason (1934–2008), U.S. – improved [liquid crystal display](#)
- Enrico Fermi (1901–1954), Italy – [nuclear reactor](#)
- Humberto Fernández-Morán (1924–1999), Venezuela – [Diamond scalpel](#), [Ultra microtome](#)
- Michele Ferrero (1925–2015), Italy – [Kinder Surprise](#) = [Kinder Eggs](#), [Nutella](#)
- Bran Ferren (born 1953), U.S. – [Pinch-to-zoom](#) (multi-touch), together with [Daniel Hillis](#)

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- [Reginald Fessenden](#) (1866–1932), Canada – two-way radio
- [Robert Feulgen](#) (1884–1955), Germany – [Feulgen stain](#) (histology)
- [Adolf Gaston Eugen Fick](#) (1829–1901), Germany – [contact lens](#)
- [Abbas Ibn Firnas](#) (810–887), [Al-Andalus](#) – [fused quartz](#) and [silica glass](#), [metronome](#)
- [Artur Fischer](#) (1919–2016) Germany – fasteners including [fischertechnik](#).
- [Franz Joseph Emil Fischer](#) (1877–1947), together with [Hans Schrader](#) (1921–2012), Germany – [Fischer assay](#) (oil yield test)
- [Franz Joseph Emil Fischer](#) (1877–1947), together with [Hans Tropsch](#) (1889–1935), Germany – [Fischer–Tropsch process](#) (refinery process)
- [Gerhard Fischer](#) (1899–1988), Germany/U.S. – [hand-held metal detector](#)
- [Paul C. Fisher](#) (1913–2006), U.S. – [Space Pen](#)
- [Alexander Fleming](#) (1881–1955), Scotland – [Penicillin](#)
- [John Ambrose Fleming](#) (1848–1945), UK – [Vacuum diode](#)
- [Sandford Fleming](#) (1827–1915), Canada – [Universal Standard Time](#)
- [Nicolas Florine](#) (1891–1972), [Georgia](#)/Russia/Belgium – first [tandem rotor helicopter](#) to fly freely
- [Tommy Flowers](#) (1905–1998), UK – [Colossus](#) an early electronic computer.
- [Thomas J. Fogarty](#) (born 1934), U.S. – [Embolectomy catheter](#) (medicine)
- [Enrico Forlanini](#) (1848–1930), Italy – [Steam helicopter](#), [hydrofoil](#), [Forlanini airships](#)
- [Eric Fossum](#) (born 1957), U.S. – intra-pixel charge transfer in [CMOS image sensors](#)
- [Jean Bernard Léon Foucault](#) (1819–1868), France – [Foucault pendulum](#), [gyroscope](#), [eddy current](#)
- [Benoît Fourneyron](#) (1802–1867), France – [water turbine](#)
- [John Fowler](#) (1826–1864), UK – steam-driven ploughing engine
- [Benjamin Franklin](#) (1706–1790), U.S. – the [pointed lightning rod conductor](#), [bifocal glasses](#), the [Franklin stove](#), the [glass harmonica](#)
- [Herman Frasch](#) (1851–1914), Germany / U.S. – [Frasch process](#) (petrochemistry), [Paraffin wax](#) purification
- [Ian Hector Frazer](#) (born 1953), together with [Jian Zhou](#) (1957–1999), U.S./China – [HPV vaccine](#) against [cervical cancer](#)
- [Augustin-Jean Fresnel](#) (1788–1827), France – [Fresnel lens](#)
- [William Friese-Greene](#) (1855–1921), UK – [cinematography](#)
- [Julius Fromm](#) (1883–1945), Germany – first seamless [Condom](#)
- [Arthur Fry](#) (born 1931), U.S. – [Post-it note](#)
- [Buckminster Fuller](#) (1895–1983), U.S. – [geodesic dome](#)
- [C. W. Fuller](#) (inv. 1953), U.S. – [Gilhoolie](#)
- [Robert Fulton](#) (1765–1815), United States – first commercially successful [steamboat](#), first practical [submarine](#)
- [Ivan Fyodorov](#) (c. 1510–1583), Russia/[Poland–Lithuania](#) – invented [multibarreled mortar](#), introduced [printing](#) in Russia
- [Svyatoslav Fyodorov](#) (1927–2000), Russia – [radial keratotomy](#)
- [Vladimir Fyodorov](#) (1874–1966), Russia – [Fedorov Avtomat](#) (first self-loading [battle rifle](#), arguably the first [assault rifle](#))

Inventions and their Inventors

G

- [Dennis Gabor](#) (1900–1979), Hungarian-British – [holography](#)
- [Boris Borisovich Galitzine](#) (1862–1916), Russia – [electromagnetic seismograph](#)
- [Joseph G. Gall](#) (born 1928), U.S. – [In situ hybridization](#) (cell biology)
- [Alfred William Gallagher](#) (1911–1990), New Zealand – [Electric fence](#) for farmers
- [Dmitri Garbuzov](#) (1940–2006), Russia/U.S. – continuous-wave-operating [diode lasers](#) (together with [Zhores Alferov](#)), high-power diode lasers
- [Elmer R. Gates](#) (1859–1923), U.S. – foam fire extinguisher, electric loom mechanisms, magnetic & diamagnetic separators, educational toy ("box & blocks")*
- [Richard J. Gatling](#) (1818–1903), U.S. – wheat drill, first successful [machine gun](#)
- [Georgy Gause](#) (1910–1986), Russia – [gramicidin S](#), [neomycin](#), [lincomycin](#) and other [antibiotics](#)
- [E. K. Gauzen](#), Russia – [three bolt equipment](#) (early [diving costume](#))
- [Norman Gaylord](#) (1923–2007), U.S. – rigid gas-permeable [contact lens](#)
- [Karl-Hermann Geib](#) (1908–1949), Germany / USSR – [Girdler sulfide process](#)
- [Hans Wilhelm Geiger](#) (1882–1945), Germany – [Geiger counter](#)
- [Andrey Geim](#) (born 1958), Russia/United Kingdom – [graphene](#)
- [Nestor Genko](#) (1839–1904), Russia – [Genko's Forest Belt](#) (the first large-scale [windbreak](#) system)
- [Christoph Gerber](#) (1942–), with [Calvin Quate](#) (1923–2019), and with [Gerd Binnig](#) (1947–), Germany/U.S./Switzerland – [Atomic force microscope](#)
- [Friedrich Clemens Gerke](#) (1801–1888), Germany – current international [Morse code](#)
- [David Gestetner](#) (1854–1939), Austria-Hungary / UK – [Gestetner copier](#)
- [Alberto Gianni](#) (1891–1930), Italy – [Torretta butoscopica](#)
- [John Heysham Gibbon](#) (1903–1973), U.S. – [Heart-lung machine](#)
- [Gustav Giemsa](#) (1867–1948), Germany – [Giemsa stain](#) (histology)
- [Adolph Giesl-Gieslingen](#) (1903–1992), Austria – [Giesl ejector](#)
- [Henri Giffard](#) (1825–1882), France – powered [airship](#), [injector](#)
- [David J. Gingery](#) (1932–2004), USA
- [Donald A. Glaser](#) (1926–2013), U.S. – [Bubble chamber](#)
- [Joseph Glass](#) (1791–1867), England – chimney-sweeping apparatus
- [Valentyn Glushko](#) (1908–1989), Russia – [hypergolic propellant](#), [electric propulsion](#), Soviet [rocket engines](#) (including world's most powerful [liquid-fuel rocket engine RD-170](#))
- [Heinrich Göbel](#) (1818–1893), Germany – [incandescent lamp](#)
- [Leonid Gobyato](#) (1875–1915), Russia – man-portable [mortar](#)
- [Robert Goddard](#) (1882–1945), U.S. – [liquid fuel rocket](#)
- [Sam Golden](#) (1915–1997), together with [Leonard Bocour](#) (1910–1993), U.S. – [Acrylic paint](#)
- [Peter Carl Goldmark](#) (1906–1977), Hungary – [vinyl record](#) (LP), CBS [color television](#)
- [Camillo Golgi](#) (1843–1926), Italy – [Golgi's method](#) (histology)
- [György Gömöri](#) (1904–1957), Hungary / U.S. – [Gömöri trichrome stain](#), [Gömöri methenamine silver stain](#) (histology)
- [Lewis Gompertz](#) (c. 1783–1861), UK – expanding chuck, improved [velocipede](#)

Inventions and their Inventors

- [Sarah E. Goode](#) (1855–1905), US – cabinet bed. First African-American woman to receive a United States patent.
- [Charles Goodyear](#) (1800–1860), U.S. – [vulcanization of rubber](#)
- [Praveen Kumar Gorakavi](#) (born 1989), India – low-cost [Braille](#) Typewriter
- [Robert W. Gore](#) (1937–2020), United States – [Gore-Tex](#)
- [Igor Gorynin](#) (1926–2015), Russia – [weldable titanium](#) alloys, high strength [aluminium](#) alloys, [radiation-hardened](#) steels
- [James Gosling](#) (born 1955), U.S. – [Java \(programming language\)](#)
- [Gordon Gould](#) (1920–2005), U.S. – [Laser](#), see also [Theodore Maiman](#)
- [Richard Hall Gower](#) (1768–1833), UK – [ship's hull and rigging](#)
- [Boris Grabovsky](#) (1901–1966), Russia – [cathode](#) commutator, an early electronic TV pickup tube
- [Bette Nesmith Graham](#) (1924–1980), U.S. – [Correction fluid](#), [Liquid Paper](#)
- [Hans Christian Gram](#) (1853–1938), Denmark / Germany – [Gram staining](#) (histology)
- [Zénobe Gramme](#) (1826–1901), Belgium/France – [Gramme dynamo](#)
- [Temple Grandin](#) (born 1947), Inventor of the [squeeze machine](#) and humane [abattoirs](#).
- [Michael Grätzel](#) (born 1944), Germany/Switzerland– [Dye-sensitized solar cell](#)
- [James Henry Greathead](#) (1844–1896), South Africa – [tunnel boring machine](#), [tunnelling shield](#) technique
- [Chester Greenwood](#) (1858–1937), U.S. – [thermal earmuffs](#)
- [Lori Greiner](#) (born 1969), U.S. – Silver Safekeeper anti-tarnish lining (jewelry organizers) and multiple consumer products, 120 US and foreign patents
- [James Gregory](#) (1638–1675), Scotland – [Gregorian telescope](#)
- [William Griggs](#) (1832–1911), England – a process of [photolithography](#)
- [William Robert Grove](#) (1811–1896), Wales – [fuel cell](#)
- [Gustav Guanella](#) (1909–1982), Switzerland – [DSSS](#), [Guanella-Balun](#)
- [Otto von Guericke](#) (1602–1686), Germany – [vacuum pump](#), [manometer](#), [dasymeter](#)
- [Mikhail Gurevich](#) (1893–1976), Russia – [MiG-series](#) fighter aircraft, including world's [most produced jet aircraft MiG-15](#) and most produced [supersonic aircraft MiG-21](#) (together with [Artem Mikoyan](#))
- [Goldsworthy Gurney](#) (1793–1875), England – [Gurney Stove](#)
- [Bartolomeu de Gusmão](#) (1685–1724), Brazil – early air balloons
- [Johann Gutenberg](#) (c. 1398–1468), Germany – movable type [printing press](#)
- [Samuel Guthrie \(physician\)](#) (1782–1848), U.S. – discovered [chloroform](#)

H

- [Fritz Haber](#) (1868–1934), Germany – [Haber process](#) (ammonia synthesis)
- [John Hadley](#) (1682–1744), UK – [Octant](#)
- [Waldemar Haffkine](#) (1860–1930), Russia/Switzerland – first anti-[cholera](#) and anti-plague vaccines
- [Gunther von Hagens](#) (born 1945), Germany – whole body [Plastination](#)
- [Charles Hall](#) (1863–1914), U.S. – [aluminum](#) production

Inventions and their Inventors

- [Robert N. Hall](#) (1919–2016), U.S. – [Semiconductor laser](#)
- [Tracy Hall](#) (1919–2008), U.S. – [synthetic diamond](#)
- [Nicholas Halse](#) (died 1636), England – malt kiln
- [Richard Hamming](#) (1915–1998), U.S. – [Hamming code](#)
- [John Hays Hammond Jr.](#) (1888–1965), U.S. – [radio control](#)
- [Ruth Handler](#) (1916–2002), U.S. – [Barbie doll](#)
- [James Hargreaves](#) (1720–1778), UK – [spinning jenny](#)
- [John Harington](#) (1561–1612), UK – the [flush toilet](#)
- [William Snow Harris](#) (1791–1867), United Kingdom – much improved naval [Lightning rods](#)
- [John Harrison](#) (1693–1776), UK – [marine chronometer](#)
- [Ross Granville Harrison](#) (1870–1959), U.S. – first successful animal [Tissue culture](#), [Cell culture](#)
- [Kazuo Hashimoto](#) (died 1995), Japan – [Caller-ID](#), [answering machine](#)
- [Victor Hasselblad](#) (1906–1978), Sweden – invented the 6 x 6 cm [single-lens reflex camera](#)
- [Ibn al-Haytham](#) (Alhazen) (965–1039), [Iraq](#) – [camera obscura](#), [pinhole camera](#), [magnifying glass](#)
- [George H. Heilmeyer](#) (1936–2014), U.S. – [liquid crystal display](#) (LCD)
- [Henry Heimlich](#) (1920–2016), U.S. – [Heimlich maneuver](#)
- [Robert A. Heinlein](#) (1907–1988), U.S. – [waterbed](#)
- [Jozef Karol Hell](#) (1713–1789), [Slovakia](#) – the water pillar
- [Rudolf Hell](#) (1901–2002), Germany – the [Hellschreiber](#)
- [Hermann von Helmholtz](#) (1821–1894), Germany – [Helmholtz pitch notation](#), [Helmholtz resonator](#), [ophthalmoscope](#)
- [Zhang Heng](#) (78–139), China – [Seismometer](#), first hydraulic-powered [armillary sphere](#)
- [Beulah Louise Henry](#) (1887–1973), U.S. – [bobbin-free sewing machine](#), vacuum [ice cream freezer](#)
- [Charles H. Henry](#) (1937–2016), U.S. – [Quantum well laser](#)
- [Joseph Henry](#) (1797–1878), Scotland/U.S. – electromagnetic [relay](#)
- [Félix d'Herelle](#) (1873–1949), together with [Giorgi Eliava](#) (1892–1937), France / Georgia – [Phage therapy](#)
- [Heron](#) (c. 10–70), [Roman Egypt](#) – usually credited with invention of the [aeolipile](#), although it may have been described a century earlier
- [John Herschel](#) (1792–1871), UK – [photographic fixer](#) (hypo), [actinometer](#)
- [Harry Houdini](#) (1874–1926) U.S. – flight time illusion
- [Heinrich Hertz](#) (1857–1894), Germany – [radio telegraphy](#), [electromagnetic radiation](#)
- [Ephraim Hertzano](#) (1912–1987), Roumania / Israel – [Rummikub](#)
- [Lasse Hessel](#) (1940–2019), Denmark – [Female condom](#)
- [George de Hevesy](#) (1885–1966), Hungary – [radioactive tracer](#)
- [Ronald Price Hickman](#) (1932–2011), U.S. – designed the original [Lotus Elan](#), the [Lotus Elan +2](#) and the [Lotus Europa](#), as well as the [Black & Decker Workmate](#)
- [Rowland Hill](#) (1795–1879), UK – [postage stamp](#)
- [Maurice Hilleman](#) (1919–2005) – [vaccines](#) against childhood diseases
- [Tanaka Hisashige](#) (1799–1881), Japan – [Myriad year clock](#)

Inventions and their Inventors

- [Ted Hoff](#) (born 1937), U.S. – [microprocessor](#)
- [Felix Hoffmann](#) (Bayer) (1868–1949), Germany – [Aspirin](#)
- [Albert Hofmann](#) (1906–2008), Switzerland – [LSD](#)
- [Kotaro Honda](#) (1870–1954), Japan – [KS steel](#)
- [Huang Hongjia](#) (born 1924), China – [Single-mode optical fiber](#).
- [Herman Hollerith](#) (1860–1929), U.S. – recording data on a machine readable medium, [tabulator](#), [punched cards](#)
- [Nick Holonyak](#) (born 1928), U.S. – [LED](#) (Light Emitting Diode)
- [Norman Holter](#) (1914–1983), U.S. – [Holter monitor](#)
- [Robert Hooke](#) (1635–1703), UK – [balance wheel](#), [iris diaphragm](#), [acoustic telephone](#)
- [Erna Schneider Hoover](#) (born 1926), U.S. – computerized telephone switching system
- [Grace Murray Hopper](#) (1906–1992), U.S. – [Compiler](#)
- [Frank Hornby](#) (1863–1936), UK – invented [Meccano](#)
- [Jimmy Hotz](#) (born 1953), U.S. – Hotz MIDI Translator, Atari Hotz Box
- [Royal Earl House](#) (1814–1895), U.S. – first [Printing telegraph](#)
- [Coenraad Johannes van Houten](#) (1801–1887), Netherlands – [cocoa powder](#), [cacao butter](#), [chocolate milk](#)
- [Elias Howe](#) (1819–1867), U.S. – [sewing machine](#)
- [David Edward Hughes](#) (1831–1900), UK – printing telegraph
- [Chuck Hull](#) (born 1939), U.S. – [3D printer](#)
- [Troy Hurtubise](#) (1963–2018), Canada – [Trojan Ballistics Suit of Armor](#), Ursus suit, Firepaste, Angel Light
- [Miller Reese Hutchison](#) (1876–1944), U.S. – [Klaxon](#), electric [hearing aid](#)
- [Christiaan Huygens](#) (1629–1695), Netherlands – [pendulum clock](#)
- [John Wesley Hyatt](#) (1837–1920), U.S. – [celluloid](#) manufacturing.

I

- [Gavriil Ilizarov](#) (1921–1992), Russia – [Ilizarov apparatus](#), [external fixation](#), [distraction osteogenesis](#)
- [Mamoru Imura](#) (born 1948), Japan – [RFIQin](#) (automatic cooking device)
- [Daisuke Inoue](#) (born 1940), Japan – [Karaoke machine](#)
- [János Irinyi](#) (1817–1895), Hungary – noiseless [match](#)
- [Ub Iwerks](#) (1901–1971), U. S. – [Multiplane camera](#) for animation

J

- [Moritz von Jacobi](#) (1801–1874), Germany/Russia – [electrotyping](#), [electric boat](#)
- [Rudolf Jaenisch](#) (born 1942), Germany/U.S. – first [Genetically modified mouse](#)

Inventions and their Inventors

- [Karl Guthe Jansky](#) (1905–1950), U.S. – [radio telescope](#)
- [Karl Jatho](#) (1873–1933), Germany – [aeroplane](#)
- [Ali Javan](#) (1926–2016), together with [William R. Bennett Jr.](#) (1930–2008), Iran/U.S. – [Gas laser](#) (Helium-Neon)
- [Al-Jazari](#) (1136–1206), [Iraq](#) – crank-driven and [hydropowered](#) [saqiya](#) [chain pump](#), crank-driven [screw](#) and [screw pump](#), [elephant clock](#), [weight-driven](#) clock, weight-driven [pump](#), [reciprocating piston suction](#) pump, geared and hydropowered [water supply](#) system, [programmable humanoid robots](#), [robotics](#), [hand washing automata](#), [flush mechanism](#), [lamination](#), [static balancing](#), [paper model](#), [sand casting](#), [molding sand](#), [intermittency](#), [linkage](#)
- [Ibn Al-Jazzar](#) (Algizar) (895–979), [Tunisia](#) – [sexual dysfunction](#) and [erectile dysfunction](#) treatment drugs
- [Ányos Jedlik](#) (1800–1898), Hungary – [Jedlik dynamo](#)
- [Alec John Jeffreys](#) (born 1950), United Kingdom – [DNA profiling](#) (forensics)
- [Charles Francis Jenkins](#) (1867–1934), U.S. – television and [movie projector](#) (Phantoscope)
- [Steve Jobs](#) (1955–2011), U.S. – Apple [Macintosh](#) computer, [iPod](#), [iPhone](#), [iPad](#) and other devices, software operating systems and applications.
- [Amos Edward Joel Jr.](#) (1918–2008) U.S. – electrical engineer, known for several contributions and over seventy patents related to telecommunications switching systems
- [Carl Edvard Johansson](#) (1864–1943), Sweden – [Gauge blocks](#)
- [Johan Petter Johansson](#) (1853–1943), Sweden – [Pipe wrench](#) and [adjustable spanner](#)
- [Reynold B. Johnson](#) (1906–1998), U.S. – [Hard disk drive](#)
- [Philipp von Jolly](#) (1809–1884), Germany – [Jolly balance](#)
- [Scott A. Jones](#) (born 1960), U.S. – created one of the most successful versions of [voicemail](#) as well as [ChaCha Search](#), a human-assisted [internet search engine](#)
- [Tom Parry Jones](#) (1935–2013), United Kingdom – first electronic [Breathalyzer](#)
- [Assen Jordanoff](#) (1896–1967), Bulgaria – [airbag](#)
- [Marc Jorgenson](#), Canada, engineer, inventor and musician
- [Anatol Josepho](#) (1894–1980), patented the first coin-operated [photo booth](#) called the "Photomaton" in 1925.
- [Marjorie Joyner](#) (1896–1994), U.S. – [Permanent wave](#) machine
- [Whitcomb Judson](#) (1836–1909), U.S. – [zipper](#)
- [Percy Lavon Julian](#) (1899–1975), U.S. – chemical synthesis of medicinal drugs from plants
- [Ma Jun](#) (*fl.* 220–265), China – [south-pointing chariot](#) (see [differential gear](#)), mechanical [puppet theater](#), [chain pumps](#), improved [silk looms](#)

K

- [Mikhail Kalashnikov](#) (1919–2013), Russia – [AK-47](#) and [AK-74](#) assault rifles (the most produced ever)
- [Bob Kahn](#) (born 1938), together with [Vint Cerf](#) (born 1943), U.S. – [Internet Protocol](#) (TCP/IP)
- [Dawon Kahng](#) (1931–1992), South Korea, together with [Simon Sze](#) (born 1936), Taiwan/U.S. – [Floating-gate MOSFET](#)

Inventions and their Inventors

- [Dean Kamen](#) (born 1951), U.S. – Invented the [Segway HT](#) scooter and the [IBOT](#) Mobility Device
- [Heike Kamerlingh Onnes](#) (1853–1926), Netherlands – [liquid helium](#)
- [Nikolay Kamov](#) (1902–1973), Russia – armored battle [autogyro](#), [Ka-series coaxial rotor helicopters](#)
- [Pyotr Kapitsa](#) (1894–1984), Russia – first ultrastrong [magnetic field](#) creating techniques, basic [low-temperature physics](#) inventions
- [Georgii Karpechenko](#) (1899–1941), Russia – [rabbage](#) (the first ever non-sterile hybrid obtained through the crossbreeding)
- [Jamshīd al-Kāshī](#) (c. 1380–1429), [Persia/Iran](#) – plate of [conjunctions](#), analog planetary [computer](#)
- [Eugene Kaspersky](#) (born 1965), Russia – [Kaspersky Anti-Virus](#), [Kaspersky Internet Security](#), [Kaspersky Mobile Security](#) anti-virus products
- [Andrew Kay](#) (1919–2014), U.S. – [Digital voltmeter](#)
- [Adolphe Kégresse](#) (1879–1943), France/Russia – [Kégresse track](#) (first [half-track](#) and first [off-road vehicle](#) with [continuous track](#)), [dual-clutch transmission](#)
- [Carl D. Keith](#) (1920–2008), together with [John J. Mooney](#) (1930–2020), U.S. – three way [catalytic converter](#)
- [Mstislav Keldysh](#) (1911–1978), [Latvia/Russia](#) – co-developer of [Sputnik 1](#) (the first artificial satellite) together with [Korolyov](#) and [Tikhonravov](#)
- [John Harvey Kellogg](#) (1852–1943), [cornflake breakfasts](#)
- [John G. Kemeny](#) (1926–1992), together with [Thomas E. Kurtz](#) (born 1928), Hungary/U.S. – [BASIC](#) (programming language)
- [Alexander Kemurdzhian](#) (1921–2003), Russia – first space exploration [rover](#) ([Lunokhod](#))
- [Mary Kenner](#) (1912–2006), U.S. – [sanitary belt](#)
- [William Saville-Kent](#) (1845–1908), UK/Australia – [Pearl culture](#), see also [Mikimoto Kōkichi](#)
- [Kerim Kerimov](#) (1917–2003), [Azerbaijan](#) and Russia – co-developer of [human spaceflight](#), [space dock](#), [space station](#)
- [Jacques de Kervor](#) (1928–2010), French industrial designer
- [Charles F. Kettering](#) (1876–1958), U.S. – invented automobile self-starter ignition, [Freon ethyl gasoline](#) and more
- [Fazlur Khan](#) (1929–1982), [Bangladesh](#) – structural systems for high-rise [skyscrapers](#)
- [Yulii Khariton](#) (1904–1996), Russia – chief designer of the [Soviet atomic bomb](#), co-developer of the [Tsar Bomba](#)
- [Anatoly Kharlampiyev](#) (1906–1979), Russia – [Sambo](#) (martial art)
- [Al-Khazini](#) (fl.1115–1130), [Persia/Iran](#) – [hydrostatic balance](#)
- [Konstantin Khrenov](#) (1894–1984), Russia – [underwater welding](#)
- [Abu-Mahmud Khojandi](#) (c. 940–1000), [Persia/Iran](#) – [astronomical sextant](#)
- [Muhammad ibn Musa al-Khwarizmi](#) (Algoritmi) (c. 780–850), [Persia/Iran](#) – modern [algebra](#), [mural instrument](#), horary quadrant, [Sine quadrant](#), shadow square
- [Marcel Kiepach](#) (1894–1915), Croatia – [dynamo](#), maritime compass that indicates north regardless of the presence of iron or magnetic forces
- [Erhard Kietz](#) (1909–1982), Germany & U.S. – signal improvements for video transmissions^[1]
- [Jack Kilby](#) (1923–2005), U.S. – patented the first [integrated circuit](#)
- [Al-Kindi](#) (Alkindus) (801–873), [Iraq/Yemen](#) – unambiguously described the distillation of wine in the 9th century, [cryptanalysis](#), [frequency analysis](#)

Inventions and their Inventors

- [Petrus Jacobus Kipp](#) (1808–1864), The Netherlands – [Kipp's apparatus](#) (chemistry)
- [Steve Kirsch](#) (born 1956), U.S. – [Optical mouse](#)
- [Fritz Klatte](#) (1880–1934), Germany – vinyl chloride, forerunner to [polyvinyl chloride](#)
- [Yves Klein](#) (1928–1962), France – [International Klein Blue](#)
- [Margaret E. Knight](#) (1838–1914), U.S. – machine that completely constructs box-bottom brown paper bags
- [Tom Knight](#) (? –), U.S. – [BioBricks](#) (synthetic biology)
- [Ivan Knunyants](#) (1906–1990), [Armenia](#)/Russia – capron, [Nylon 6](#), polyamide-6
- [Robert Koch](#) (1843–1910), Germany – method for culturing bacteria on solid media
- [Willem Johan Kolff](#) (1911–2009), Netherlands – artificial kidney [hemodialysis](#) machine
- [Rudolf Kompfner](#) (1909–1977), U.S. – [Traveling-wave tube](#)
- [Konstantin Konstantinov](#) (1817 or 1819–1871), Russia – device for measuring flight speed of [projectiles](#), [ballistic](#) rocket [pendulum](#), [launch pad](#), rocket-making machine
- [Sergei Korolev](#) (1907–1966), [USSR](#) – first successful [intercontinental ballistic missile](#) ([R-7 Semyorka](#)), [R-7 rocket family](#), [Sputniks](#) (including the [first Earth-orbiting artificial satellite](#)), [Vostok program](#) (including the [first human spaceflight](#))
- [Nikolai Korotkov](#) (1874–1920), [Russian Empire](#) – auscultatory technique for [blood pressure](#) measurement
- [Semyon Korsakov](#) (1787–1853), [Russian Empire](#) – [punched card](#) for information storage
- [Mikhail Koshkin](#) (1898–1940), Russia – [T-34](#) medium tank, the best and most produced tank of World War II^[2]
- [Ognjeslav Kostović](#) (1851–1916), [Serbia](#)/Russia – arborite (high-strength [plywood](#), an early plastic)
- [Gleb Kotelnikov](#) (1872–1944), Russia – [knapsack parachute](#), [drogue parachute](#)
- [William Justin Kroll](#) (1889–1973), [Luxemburg](#)/U.S. – [Kroll process](#)
- [Alfred Krupa](#) (1915-1989), [Yugoslavia](#) - the modern wheeled suitcase, a glass-bottom boat, the skis for use in walking on water, a folding canvas catamaran
- [Aleksey Krylov](#) (1863–1945), Russia – [gyroscopic damping](#) of ships
- [Ivan Kulibin](#) (1735–1818), Russia – egg-shaped clock, [candle searchlight](#), [elevator](#) using screw mechanisms, a [self-rolling carriage](#) featuring a [flywheel](#), [brake](#), [gear box](#), and [bearing](#), an early [optical telegraph](#)
- [Shen Kuo](#) (1031–1095), China – improved [gnomon](#), [armillary sphere](#), [clepsydra](#), and sighting tube
- [Igor Kurchatov](#) (1903–1960), Russia – first [nuclear power plant](#), first [nuclear reactors](#) for [submarines](#) and [surface ships](#)
- [Thomas E. Kurtz](#) (born 1928), together with [John G. Kemeny](#) (1926–1992), U.S./Hungary – [BASIC](#) (programming language)
- [Raymond Kurzweil](#) (born 1948), [Optical character recognition](#); [flatbed scanner](#)
- [Ken Kutaragi](#) (born 1950), Japan – [PlayStation](#)
- [Stephanie Kwolek](#) (1923–2014), U.S. – [Kevlar](#)
- [John Howard Kyan](#) (1774–1850), Ireland – The process of Kyanization used for [wood preservation](#)

Inventions and their Inventors

L

- [Dmitry Lachinov](#) (1842–1902), Russia – [mercury pump](#), [economizer](#) for electricity consumption, [electrical insulation](#) tester, [optical dynamometer](#), [photometer](#), [electrolyser](#)
- [René Laennec](#) (1781–1826), France – [stethoscope](#)
- [Georges Lakhovsky](#) (1869–1942), Russia/U.S. – Multiple Wave Oscillator
- [Hedy Lamarr](#) (1913–2000), Austria and U.S. – [Spread spectrum](#) radio
- [Edwin H. Land](#) (1909–1991), U.S. – [Polaroid](#) polarizing filters and the [Land Camera](#)
- [Samuel P. Langley](#) (1834–1906), U.S. – [bolometer](#)
- [Alexander Nikolayevich Lodygin](#) (1847–1923), Russia – [incandescent lamp](#)
- [Irving Langmuir](#) (1851–1957), U.S. – gas filled [incandescent light bulb](#), hydrogen welding
- [Norm Larsen](#) (1923–1970), U.S. – [WD-40](#)
- [Lewis Latimer](#) (1848–1928), U.S. – improved carbon-filament light bulb
- [Gustav de Laval](#) (1845–1913), Sweden – invented the milk separator and the milking machine
- [Semyon Lavochkin](#) (1900–1960), Russia – [La-series](#) aircraft, first operational [surface-to-air](#) missile [S-25 Berkut](#)
- [John Bennet Lawes](#) (1814–1900), UK – [superphosphate](#) or [chemical fertilizer](#)
- [Ernest Orlando Lawrence](#) (1901–1958), U.S. – [Cyclotron](#)
- [Nikolai Lebedenko](#), Russia – [Tsar Tank](#), the largest [armored vehicle](#) in history
- [Sergei Lebedev](#) (1874–1934), Russia – commercially viable [synthetic rubber](#)
- [William Lee](#) (1563–1614), UK – [Stocking frame knitting machine](#)
- [Edward Leedskalnin](#) (1887–1951), U.S. – construction techniques used to single-handedly lift massive coral blocks in the creation of his [Coral Castle](#)
- [Antoni van Leeuwenhoek](#) (1632–1723), The Netherlands – development of the [microscope](#)
- [Jerome H. Lemelson](#) (1923–1997), U.S. – Inventions in the fields in which he patented make possible, wholly or in part, innovations like automated warehouses, [industrial robots](#), [cordless telephones](#), [fax machines](#), videocassette recorders, [camcorders](#), and the [magnetic tape drive](#) used in Sony's Walkman tape players.
- [Jean-Joseph Etienne Lenoir](#) (1822–1900), Belgium – [internal combustion engine](#), [motorboat](#)
- [Giacomo da Lentini](#) (13th century), Italy – [Sonnet](#)
- [R. G. LeTourneau](#) (1888–1969), U.S. – electric wheel, motor scraper, mobile oil drilling platform, bulldozer, cable control unit for scrapers
- [Rasmus Lerdorf](#) (born 1968), Greenland/Canada – [PHP](#) (programming language)
- [Willard Frank Libby](#) (1908–1980), U.S. – [radiocarbon dating](#)
- [Justus von Liebig](#) (1803–1873), Germany – [nitrogen-based fertilizer](#)
- [Hon Lik](#) (born 1951), Chinese. [electronic cigarette](#)
- [Otto Lilienthal](#) (1848–1896), Germany – [hang glider](#)
- [Lin Yutang](#) (1895–1976), China/U.S. – [Chinese language typewriter](#)
- [Charles Lindbergh](#) (1902–1974), U.S. – organ [perfusion pump](#)
- [Frans Wilhelm Lindqvist](#) (1862–1931), Sweden – Kerosene stove operated by compressed air
- [Carl Linnaeus](#) (1707–1778), Sweden – formal [Binomial nomenclature](#) for living organisms, [Horologium Florae](#)

Inventions and their Inventors

- [Hans Lippershey](#) (1570–1619), The Netherlands – associated with the appearance of the [telescope](#)
- [Jonas Ferdinand Gabriel Lippmann](#) (1845–1921), France – [Lippmann plate](#), [Integral imaging](#), [Lippmann electrometer](#)
- [Lisitsyn](#) brothers, Ivan Fyodorovich and Nazar Fyodorovich, Russia – [samovar](#) (the first documented makers)
- [William Howard Livens](#) (1889–1964), UK – chemical warfare – [Livens Projector](#)
- [Eduard Locher](#) (1840–1910), Switzerland – [Locher rack railway system](#)
- [Fredrik Ljungström](#) (1875–1964) and [Birger Ljungström](#) (1872–1948), Sweden - [Ljungström turbine](#), [Ljungström air preheater](#), [Ljungström method](#)
- [Alexander Lodygin](#) (1847–1923), Russia – [electrical filament](#), [incandescent light bulb](#) with tungsten filament
- [Mikhail Lomonosov](#) (1711–1765), Russia – [night vision telescope](#), [off-axis reflecting telescope](#), [coaxial rotor](#), re-invented [smalt](#)
- [Yury Lomonosov](#) (1876–1952), Russia/United Kingdom – first successful mainline [diesel locomotive](#)
- [Aleksandr Loran](#) (1849 – after 1911), Russia – [fire fighting foam](#), [foam extinguisher](#)
- [Oleg Losev](#) (1903–1942), Russia – [light-emitting diode](#), [crystadine](#)
- [Antoine Louis](#) (1723–1792), France – [Guillotine](#)
- [Archibald Low](#) (1882–1956), Britain – Pioneer of radio guidance systems
- [Ed Lowe](#) (1920–1995), U.S. – [Cat litter](#)
- [Gleb Lozino-Lozinskiy](#) (1909–2001), Russia – [Buran \(spacecraft\)](#), [Spiral project](#)
- [Ignacy Łukasiewicz](#) (1822–1882), Poland – [Kerosene lamp](#)
- [Auguste and Louis Lumière](#) (1862–1954 and 1864–1948, resp.), France – [Cinématographe](#)
- [Cai Lun](#), 蔡倫 (50–121 AD), China – [paper](#)
- [Giovanni Luppis](#) or Ivan Vukić (1813–1875), [Austrian Empire](#) (ethnic Croatian, from Rijeka) – self-propelled [torpedo](#)
- [Richard F. Lyon](#) (born 1952), U.S. – [Optical mouse](#)
- [Arkhip Lyulka](#) (1908–1984), Russia – first double jet [turbofan](#) engine, [other](#) Soviet [aircraft engines](#)

M

- [Charles Macintosh](#) (1766–1843), Scotland – [waterproof raincoat](#), [life vest](#)
- [Theodore Maiman](#) (1927–2007), U.S. – [Laser](#), see also [Gordon Gould](#)
- [Ahmed Majan](#) (born 1963), UAE – instrumented racehorse saddle and others
- [Aleksandr Makarov](#) (born 1966), Russia/Germany – [Orbitrap mass spectrometer](#)
- [Stepan Makarov](#) (1849–1904), Russia – [Icebreaker Yermak](#), the first true [icebreaker](#) able to ride over and crush [pack ice](#)
- [Victor Makeev](#) (1924–1985), Russia – first [submarine-launched ballistic missile](#)
- [Nestor Makhno](#) (1888–1934), [Ukraine](#)/Russia – [tachanka](#)

Inventions and their Inventors

- [Dmitri Dmitrievich Maksutov](#) (1896–1964), Russia – [Maksutov telescope](#)
- [Annie Malone](#) (1869–1957), U.S. – [Cosmetics for African American women](#)
- [Sergey Malyutin](#) (1859–1937), Russia – designed the first [matryoshka doll](#) (together with [Vasily Zvyozdochkin](#))
- [Al-Ma'mun](#) (786–833), [Iraq](#) – singing bird [automata](#), terrestrial [globe](#)
- [Boris Mamyrin](#) (1919–2007), Russia – [reflectron](#) (ion mirror)
- [George William Manby](#) (1765–1854), UK – [Fire extinguisher](#)
- [Joy Mangano](#) (born 1956), U.S. – household appliances
- [Charles Mantoux](#) (1877–1947), France – [Mantoux test](#) (tuberculosis)
- [Guglielmo Marconi](#) (1874–1937), Italy – radio [telegraphy](#)
- [Gheorghe Marinescu](#) (1863–1938), Romania – the first science films in the world in the neurology clinic in Bucharest (1898–1901)
- [Sylvester Marsh](#) (1803–1884), U.S. – [Marsh rack railway system](#)
- [Konosuke Matsushita](#) (1894–1989), Japan – battery-powered [Bicycle lighting](#)
- [Taqi al-Din Muhammad ibn Ma'ruf](#) (1526–1585), [Syria/Egypt/Turkey](#) – [steam turbine](#), six-cylinder 'Monobloc' [suction pump](#), [framed sextant](#)
- [John Landis Mason](#) (1826–1902), U.S. – [Mason jars](#)
- [Fujio Masuoka](#) (born 1943), Japan – [Flash memory](#)
- [John W. Mauchly](#) (1907–1980), U.S. – [ENIAC](#) – the first general purpose programmable digital computer
- [Henry Maudslay](#) (1771–1831), UK – screw-cutting [lathe](#), bench [micrometer](#)
- [Hiram Maxim](#) (1840–1916), U.S. born, UK – First self-powered machine gun
- [James Clerk Maxwell](#) (1831–1879) and [Thomas Sutton](#), Scotland – [color photography](#)
- [Stanley Mazor](#) (born 1941), U.S. – [microprocessor](#)
- [John Loudon McAdam](#) (1756–1836), Scotland – improved "macadam" road surface
- [Elijah McCoy](#) (1843–1929), Canada – [Displacement lubricator](#)
- [Nicholas McKay Sr.](#) (1920–2014), U.S. – [Lint roller](#)
- [James McLurkin](#) (born 1972), U.S. – [Ant robotics](#) (robotics)
- [Ilya Ilyich Mechnikov](#) (1845–1916), Russia – [probiotics](#)
- [Hippolyte Mège-Mouriès](#) (1817–1880), France – [margarine](#)
- [Mordecai Meirowitz](#) (born 1930), Roumania / Israel – [Mastermind](#) (board game)
- [Dmitri Mendeleev](#) (1834–1907), Russia – [Periodic table](#), [pycnometer](#), [pyrocollodion](#)
- [Richard B. Merrill](#) (1949–2008), U.S. – [Foveon X3 sensor](#)
- [George de Mestral](#) (1907–1990), Switzerland – [Velcro](#)
- [Robert Metcalfe](#) (born 1946), U.S. – [Ethernet](#)
- [Antonio Meucci](#) (1808–1889), Italy/U.S. – various early [telephones](#), a [hygrometer](#), a [milk test](#)
- [Édouard Michelin](#) (1859–1940), France – [pneumatic tire](#)
- [Anthony Michell](#) (1870–1959), Australia – tilting pad thrust bearing, crankless engine
- [Artem Mikoyan](#) (1905–1970), [Armenia/Russia](#) – [MiG-series](#) fighter aircraft, including world's most produced [jet aircraft MiG-15](#) and most produced [supersonic aircraft MiG-21](#) (together with [Mikhail Gurevich](#))
- [Alexander Mikulin](#) (1895–1985), Russia – [Mikulin AM-34](#) and other Soviet [aircraft engines](#), co-developer of the [Tsar Tank](#)

Inventions and their Inventors

- [Mikhail Mil](#) (1909–1970), Russia – [Mi-series helicopter](#) aircraft, including [Mil Mi-8](#) (the world's [most-produced helicopter](#)) and [Mil Mi-12](#) (the world's largest helicopter)
- [David L. Mills](#) (born 1938), U.S. – [Fuzzball router](#), [Network Time Protocol](#)
- [Marvin Minsky](#) (1927–2016), U.S. – [Confocal microscopy](#)
- [Tokushichi Mishima](#) (1893–1975), Japan – [MKM magnetic steel](#)
- [Pavel Molchanov](#) (1893–1941), Russia – [Radiosonde](#)
- [Jules Montenier](#) (1895–1962), U.S. – Anti-perspirant [deodorant](#)
- [Montgolfier brothers](#) (1740–1810) and (1745–1799), France – [hot air balloon](#)
- [John J. Montgomery](#) (1858–1911), U.S. – heavier-than-air gliders
- [Narcis Monturiol i Estarriol](#) (1819–1885), Spain – steam powered [submarine](#)
- [Robert Moog](#) (1934–2005), U.S. – the [Moog synthesizer](#)
- [John J. Mooney](#) (1930–2020), together with [Carl D. Keith](#) (1920–2008), U.S. – three way [catalytic converter](#)
- [Roland Moreno](#) (1945–2012), France – inventor of the [smart card](#)
- [Samuel Morey](#) (1762–1843), U.S. – internal combustion engine
- [Garrett A. Morgan](#) (1877–1963), U.S. – inventor of the [smoke hood](#)
- [Alexander Morozov](#) (1904–1979), Russia – [T-54/55](#) (the most produced tank in history), co-developer of [T-34](#)
- [Walter Frederick Morrison](#) (1920–2010), U.S. – [Flying disc](#)
- [William Morrison \(dentist\)](#) (1860–1926), U.S. – [Cotton candy machine](#)
- [Samuel Morse](#) (1791–1872), U.S. – early [Morse code](#), see also [Morse Code controversy](#)
- [Sergei Ivanovich Mosin](#) (1849–1902), Russia – [Mosin–Nagant rifle](#)
- [Motorins](#), Ivan Feodorovich (1660s–1735) and his son Mikhail Ivanovich (?–1750), Russia – [Tsar Bell](#)
- [Vera Mukhina](#) (1889–1953), Russia – [welded sculpture](#)
- [Kary Mullis](#) (1944–2019), U.S. – [PCR](#)
- [Fe del Mundo](#) (1911–2011), Philippines – [medical incubator](#) made out of bamboo for use in rural communities without electrical power
- [Colin Murdoch](#) (1929–2008), New Zealand – [Tranquillizer gun](#), disposable [hypodermic syringe](#)
- [William Murdoch](#) (1754–1839), Scotland – [Gas lighting](#)
- [Jozef Murgas](#) (1864–1929), [Slovakia](#) – inventor of the [wireless telegraph](#) (forerunner of the radio)
- [Evgeny Murzin](#) (1914–1970), Russia – [ANS synthesizer](#)
- [Banū Mūsā brothers](#), Muhammad (c. 800–873), Ahmad (803–873), Al-Hasan (810–873), Iraq – [mechanical trick devices](#), [hurricane lamp](#), self-trimming and self-feeding [lamp](#), [gas mask](#), [clamshell grab](#), [fail-safe](#) system, mechanical [musical instrument](#), automatic [flute player](#), [programmable machine](#)
- [Elon Musk](#) (born 1971)
- [Pieter van Musschenbroek](#) (1692–1761), Netherlands – [Leyden jar](#), [pyrometer](#)
- [Walton Musser](#) (1909–1998), U.S. – [Harmonic drive gear](#)
- [Eadweard Muybridge](#) (1830–1904), UK – [motion picture](#)

Inventions and their Inventors

N

- [Georgi Nadjakov](#) (1896–1981), Bulgaria – [wikt:photoelectret](#)
- [Alexander Nadiradze](#) (1914–1987), Georgia/Russia – first mobile [ICBM](#) ([RT-21 Temp 2S](#)), first reliable mobile [ICBM](#) ([RT-2PM Topol](#))
- [Nagai Nagayoshi](#) (1844–1929), Japan – [Methamphetamine](#)
- [James Naismith](#) (1861–1939), Canadian born, U.S. – invented [basketball](#) and [American football](#) helmet
- [Yoshiro Nakamatsu](#) (born 1928), Japan – "PyonPyon" spring [shoes](#), [digital watch](#), [CinemaScope](#), [armchair](#) "Cerebrex", sauce [pump](#), [taxicab meter](#)
- [Shuji Nakamura](#) (born 1954), Japan – [Blue laser](#)
- [John Napier](#) (1550–1617), Scotland – [logarithms](#)
- [Andrey Nartov](#) (1683–1756), Russia – first [lathe](#) with a mechanic [cutting tool](#)-supporting [carriage](#) and a set of [gears](#), fast-fire [battery](#) on a rotating disc, [screw](#) mechanism for changing the [artillery](#) fire angle, [gauge–boring](#) lathe for [cannon](#)-making, early [telescopic sight](#)
- [James Nasmyth](#) (1808–1890), Scotland – [steam hammer](#)
- [Giulio Natta](#) (1903–1979), together with [Karl Ziegler](#) (1898–1973), Italy/Germany – [Ziegler–Natta catalyst](#)
- [William Neade](#) (fl.1624–1637), England – weapon combining a longbow and a pike
- [Nebuchadrezzar II](#) (634–562 BC), [Iraq](#) ([Mesopotamia](#)) – [screw](#), [screw pump](#)
- [Erwin Neher](#) (born 1944), together with [Bert Sakmann](#) (1942–), Germany – [Patch clamp](#) technique
- [Ted Nelson](#) (born 1937), U.S. – [Hypertext](#), [Hypermedia](#)
- [Sergey Nepobedimiy](#) (1921–2014), Russia – first supersonic [anti-tank guided missile](#) *Sturm*, other Soviet [rocket weaponry](#)
- [Karl Nessler](#) (1872–1951), Germany/U.S. – [Permanent wave](#) machine, [artificial eyebrows](#)
- [Bernard de Neumann](#) (1943–2018), United Kingdom – massively parallel self-configuring multi-processor
- [John von Neumann](#) (1903–1957), Hungary – Von Neumann [computer architecture](#)
- [Isaac Newton](#) (1642–1727), UK – reflecting telescope (which reduces [chromatic aberration](#))
- [Miguel Nicolelis](#) (born 1961), Brazil – Brain-machine interfaces
- [Joseph Nicéphore Niépce](#) (1765–1833), France – [photography](#)
- [Nikolai Nikitin](#) (1907–1973), Russia – [prestressed concrete](#) with [wire ropes](#) structure ([Ostankino Tower](#)), Nikitin-Travush 4000 project (precursor to [X-Seed 4000](#))
- [Paul Gottlieb Nipkow](#) (1860–1940), Germany – [Nipkow disk](#)
- [Jun-ichi Nishizawa](#) (1926–2018), Japan – [Optical communication](#) system, [SIT/SITh](#) ([Static Induction Transistor/Thyristor](#)), [Laser diode](#), [PIN diode](#)
- [Alfred Nobel](#) (1833–1896), Sweden – [dynamite](#)
- [Ludvig Nobel](#) (1831–1888), Sweden/Russia – first successful [oil tanker](#)
- [Emmy Noether](#) (1882–1935), Germany, groundbreaking contributions to abstract algebra and theoretical physics; [Noether's Theorem](#)
- [Jean-Antoine Nollet](#) (1700–1770), France – [Electroscope](#)

Inventions and their Inventors

- [Wilhelm Normann](#) (1870–1939), Germany – [Hydrogenation of fats](#)
- [Carl Richard Nyberg](#) (1858–1939), Sweden – the [blowtorch](#)

O

- [Aaron D. O'Connell](#) (born 1981), U.S. – first [Quantum machine](#)
- [Joseph John O'Connell](#) (1861–1959), U.S. – number of inventions relating to telephony and electrical engineering
- [Theophil Wilgodt Odhner](#) (1845–1903), Sweden/Russia – the [Odhner Arithmometer](#), a [mechanical calculator](#)
- [Paul Offit](#) (born 1951), United States, along with Fred Clark and [Stanley Plotkin](#), invented a pentavalent [Rotavirus vaccine](#)
- [Jarkko Oikarinen](#) (born 1967), Finland – [Internet Relay Chat \(IRC\)](#)
- [Katsuhiko Okamoto](#) (?–), Japan – [Okamoto Cubes](#) = modifications of [Rubik's Cube](#)
- [Ransom Eli Olds](#) (1864–1950), United States – [Assembly line](#)
- [Lucien Olivier](#) (1838–1883), Belgium or France / Russia – [Russian salad](#) (Olivier salad)
- [Gerard K. O'Neill](#) (1927–1992), U.S. – [Storage ring](#) (physics)
- [J. Robert Oppenheimer](#) (1904–1967), United States – [Atomic bomb](#)
- [Hugh Orr](#) (1715–1798), U.S. – machine for cleaning flax seed
- [Hans Christian Ørsted](#) (1777–1851), Denmark – [electromagnetism](#), [aluminium](#)
- [Elisha Otis](#) (1811–1861), U.S. – safety system for [elevators](#)
- [William Oughtred](#) (1575–1660), UK – [slide rule](#)

P

- [Arogyaswami Paulraj](#) (born 1944), India/U.S. – [MIMO](#)
- [Antonio Pacinotti](#) (1841–1912), Italy – [Pacinotti dynamo](#)
- [Larry Page](#) (born 1973), U.S. – with [Sergey Brin](#) invented [Google web search engine](#)
- [William Painter](#) (1838–1906), UK/U.S. – [Crown cork](#), [Bottle opener](#)
- [Salvatore Pais](#) (born 1967), Romania/U.S. – an [electromagnetic field](#) generator to deflect asteroids away from the Earth, an [inertial mass](#) reduction device, a [room-temperature superconductor](#), a [gravitational wave](#) generator, and a [compact fusion reactor](#)
- [Alexey Pajitnov](#) (born 1956), Russia/U.S. – [Tetris](#)
- [Julio Palmaz](#) (born 1945), Argentina – balloon-expandable, [stent](#)
- [Helge Palmcrantz](#) (1842–1880), Sweden – the multi-barrel, lever-actuated, [machine gun](#)
- [Daniel David Palmer](#) (1845–1913), Canada – [chiropractic](#)
- [Luigi Palmieri](#) (1807–1896), Italy – [seismometer](#)
- [Frank Pantridge](#) (1916–2004), Ireland – [Portable defibrillator](#)
- [Georgios Papanicolaou](#) (1883–1962), Greece / U.S. – [Papanicolaou stain](#), [Pap test](#) = [Pap smear](#)
- [Philip M. Parker](#) (born 1960), U.S. – computer automated book authoring
- [Thomas Parker](#) (1843–1915), England – [electric car](#)

Inventions and their Inventors

- [Alexander Parkes](#) (1831–1890), UK – [celluloid](#)
- [Forrest Parry](#) (1921–2005), U.S. – [Magnetic stripe card](#)
- [Charles Algernon Parsons](#) (1854–1931), British – [steam turbine](#)
- [Spede Pasanen](#) (1930–2001), Finland – [ski jumping sling](#), [boat ski](#)
- [Blaise Pascal](#) (1623–1662), France – [Pascal's calculator](#)
- [Gustaf Erik Pasch](#) (1788–1862), Sweden – [safety match](#)
- [Dimitar Paskov](#) (1914–1986), Bulgaria – [Galantamine](#)
- [C. Kumar N. Patel](#) (born 1938), India/U.S. – [Carbon dioxide laser](#)
- [Les Paul](#) (1915–2009), U.S. – [multitrack recording](#)
- [Andreas Pavel](#) (born 1945), Brazil – [audio devices](#)
- [Ivan Pavlov](#) (1849–1936), Russia, – [classical conditioning](#)
- [Floyd Paxton](#) (1918–1975), U.S. – [Bread clip](#)
- [John Pemberton](#) (1831–1888), U.S. – [Coca-Cola](#)
- [Slavoljub Eduard Penkala](#) (1871–1922), [Croatia](#) – [mechanical pencil](#)
- [Ralph Peo](#) (1897-1966), United States - early [Automobile air conditioning](#), [shock absorbers](#)
- [William Henry Perkin](#) (1838–1907), United Kingdom – first synthetic organic chemical dye [Mauveine](#)
- [Henry Perky](#) (1843–1906), U.S. – [shredded wheat](#)
- [Alfred Perot](#) (1863–1925), together with [Charles Fabry](#) (1867–1945), France – [Fabry–Pérot interferometer](#) (physics)
- [Stephen Perry](#), UK (*fl.* 19th century) – [rubber band](#)
- [Aurel Persu](#) (1890–1977), Romania – first aerodynamic car, aluminum body with wheels included under the body, 1922
- [Vladimir Petlyakov](#) (1891–1942), Russia – [heavy bomber](#)
- [Julius Richard Petri](#) (1852–1921), Germany – [Petri dish](#)
- [Peter Petroff](#) (1919–2004), [Bulgaria](#) – [digital wrist watch](#), [heart monitor](#), [weather instruments](#)
- [Fritz Pfleumer](#) (1881–1945), Germany – [magnetic tape](#)
- [Auguste Piccard](#) (1884–1962), Switzerland – [Bathyscaphe](#)
- [Gregory Goodwin Pincus](#) (1903–1967), together with [Min Chueh Chang](#) (1908–1991), U.S./China – [Combined oral contraceptive pill](#)
- [Nikolay Ivanovich Pirogov](#) (1810–1881), Russia – early use of [ether](#) as [anaesthetic](#), first [anaesthesia](#) in a field operation, various kinds of surgical operations
- [Fyodor Pirotsky](#) (1845–1898), Russia – [electric tram](#)
- [Arthur Pitney](#) (1871–1933), United States – [postage meter](#)
- [Hippolyte Pixii](#) (1808–1835), France – [Pixii dynamo](#)
- [Joseph Plateau](#) (1801–1883), Belgium – [phenakistiscope](#) (stroboscope)
- [Baltzar von Platen](#) (1898–1984), Sweden – [gas absorption refrigerator](#)
- [James Leonard Plimpton](#) (1828–1911), U.S. – [roller skates](#)
- [Ivan Plotnikov](#) (1902–1995), Russia – [kirza leather](#)
- [Roy Plunkett](#) (1910–1994), United States – [Teflon](#)
- [Petrache Poenaru](#) (1799–1875), [Romania](#) – [fountain pen](#)
- [Christopher Polhem](#) (1661–1751), Sweden – [Padlock](#)
- [Nikolai Polikarpov](#) (1892–1944), Russia – [Po-series aircraft](#), including [Polikarpov Po-](#)

Inventions and their Inventors

2 *Kukuruznik* (world's [most produced biplane](#))

- [Eugene Polley](#) (1915–2012), United States – wireless [remote control](#) (with [Robert Adler](#))
- [Ivan Polzunov](#) (1728–1766), Russia – first two-cylinder [steam engine](#)
- [Mikhail Pomortsev](#) (1851–1916), Russia – [nephoscope](#)
- [Olivia Poole](#) (1889–1975), U.S. – the Jolly Jumper baby harness
- [Alexander Popov](#) (1859–1906), Russia – radio pioneer, created a [radio receiver](#) that worked as a [lightning detector](#)
- [Nikolay Popov](#) (1931–2008), Russia – first fully [gas turbine](#) main battle tank (T-80)
- [Josef Popper](#) (1838–1921), Austria- discovered the transmission of power by electricity.
- [Aleksandr Porokhovschikov](#) (1892–1941), Russia – [Vezdekhod](#) (the first prototype [tank](#), or [tankette](#), and the first [caterpillar amphibious ATV](#))
- [Ignazio Porro](#) (1801–1875), Italy – [Porro prism](#), [strip camera](#)
- [Valdemar Poulsen](#) (1869–1942), Denmark – [magnetic wire recorder](#), [arc converter](#)
- [Joseph Priestley](#) (1733–1804), UK – [soda water](#)
- [Robert Taylor Pritchett](#) (1828–1907), UK – Pritchett bullet
- [Alexander Procofieff de Seversky](#) (1894–1974), Russia/United States of America – first [gyroscopically](#) stabilized bombsight, [ionocraft](#), also developed [air-to-air refueling](#)
- [Alexander Prokhorov](#) (1916–2002), Russia – co-inventor of [laser](#) and [maser](#)
- [Petro Prokopovych](#) (1775–1850), [Russian Empire](#) – early [beehive frame](#), [queen excluder](#) and other [beekeeping](#) novelties
- [Sergey Prokudin-Gorsky](#) (1863–1944), Russia/France – early [colour photography](#) method based on three colour channels, also colour film slides and colour [motion pictures](#)
- [Mark Publicover](#) (born 1958), U.S. – First affordable [trampoline safety net enclosure](#)
- [George Pullman](#) (1831–1897), U.S. – Pullman [sleep wagon](#)
- [Michael I. Pupin](#) (1858–1935), [Serbia](#) – [pupinization](#) (loading coils), tunable oscillator
- [Tivadar Puskás](#) (1844–1893), Hungary – [telephone exchange](#)

Q

- [Calvin Quate](#) (1923-2019), with [Gerd Binnig](#) (born 1947), and with [Christoph Gerber](#) (1942–), U.S./Germany/Switzerland – [Atomic force microscope](#)
- [Adolphe Quetelet](#) (1796–1874), France/Belgium – [Body mass index \(BMI\)](#)

R

- [Jacob Rabinow](#) (1910–1999), U.S. – [Magnetic particle clutch](#), various [Phonograph](#)-related patents
- [John Goffe Rand](#) (1801–1873), U.S. – [Tube \(container\)](#)
- [Robert Ransome](#) (1753–1830), England – improvement to the plough
- [Muhammad ibn Zakarīya Rāzi](#) (Rhazes) (865–965), [Persia/Iran](#) – [distillation](#) and [extraction](#) methods, [sulfuric acid](#) and [hydrochloric acid](#), [soap kerosene](#), [kerosene lamp](#), [chemotherapy](#), [sodium hydroxide](#)
- [Alec Reeves](#) (1902–1971), UK – [Pulse-code modulation](#)

Inventions and their Inventors

- [Karl von Reichenbach](#) (1788–1869), Germany – [paraffin](#), [creosote oil](#), [phenol](#)
- [Tadeus Reichstein](#) (1897–1996), Poland/Switzerland – [Reichstein process](#) (industrial vitamin C synthesis)
- [Ira Remsen](#) (1846–1927), U.S. – [saccharin](#)
- [Ralf Reski](#) (born 1958), Germany – [Moss bioreactor](#) 1998
- [Josef Ressel](#) (1793–1857), [Czechoslovakia](#) – ship [propeller](#)
- [William Reynolds](#) (1758–1803), England – [canal inclined plane](#)
- [Ri Sung-gi](#) (1905–1996), North Korea – [Vinyon](#)
- [Charles Francis Richter](#) (1900–1985), U.S. – [Richter magnitude scale](#)
- [Adolph Rickenbacker](#) (1886–1976), Switzerland – [Electric guitar](#)
- [Hyman George Rickover](#) (1900–1986), U.S. – [Nuclear submarine](#)
- [Niklaus Riggensbach](#) (1817–1899), Switzerland – [Riggensbach rack railway system](#), [Counter-pressure brake](#)
- [Dennis Ritchie](#) (1941–2011), U.S. – [C \(programming language\)](#)
- [Gilles de Roberval](#) (1602–1675), France – [Roberval balance](#)
- [John Roebuck](#) (1718–1794) UK – [lead chamber process](#) for sulfuric acid synthesis
- [Francis Rogallo](#) (1912–2009), U.S. – [Rogallo wing](#)
- [Heinrich Rohrer](#) (1933–2013), together with [Gerd Binnig](#) (1947–), Switzerland/Germany – [Scanning tunneling microscope](#)
- [Peter I the Great](#) (Pyotr Alexeyevich Romanov), [Tsar](#) and [Emperor of Russia](#) (1672–1725), Russia – [decimal currency](#), [yacht club](#), [sounding line](#) with separating [plummet](#) ([sounding weight probe](#))
- [Wilhelm Conrad Röntgen](#) (1845–1923), Germany – the [X-ray machine](#)
- [Ida Rosenthal](#) (1886–1973), [Belarus](#)/Russia/United States – [Bra \(Maidenform\)](#), the standard of [cup sizes](#), [nursing bra](#), full-figured bra, the first seamed uplift bra (all with her husband William)
- [Sidney Rosenthal](#) (1907–1979), U.S. – [Magic Marker](#)
- [Eugene Roshal](#) (born 1972), Russia – [FAR](#) file manager, [RAR file format](#), [WinRAR file archiver](#)
- [Boris Rosing](#) (1869–1933), Russia – [CRT television](#) (first television system using [CRT](#) on the receiving side)
- [Guido van Rossum](#) (born 1956), The Netherlands – [Python \(programming language\)](#)
- [Subrata Roy \(scientist\)](#) (born 1962), India, U.S. – [Wingless Electromagnetic Air Vehicle](#), [Serpentine geometry plasma actuator](#), [micro-scale actuators](#)
- [Jean-François Pilâtre de Rozier](#) (1754–1785), France – [Rozière balloon](#)
- [Ernő Rubik](#) (born 1944), Hungary – [Rubik's Cube](#), [Rubik's Magic](#) and [Rubik's Clock](#)
- [Ernst Ruska](#) (1906–1988), Germany – [electron microscope](#)

S

- [Albert Bruce Sabin](#) (1906–1993), U.S. – oral [Polio vaccine](#)
- [Alexander Sablukov](#) (1783–1857), Russia – [centrifugal fan](#)
- [Şerafeddin Sabuncuoğlu](#) (1385–1468), Turkey – illustrated [surgical atlas](#)
- [Gilles Saint-Hilaire](#) (born 1948), Canada – [Quasiturbine](#), [Qurbine](#)

Inventions and their Inventors

- [Andrei Sakharov](#) (1921–1989), Russia – invented [explosively pumped flux compression generator](#), co-developed the [Tsar Bomb](#) and [tokamak](#)
- [Jonas Edward Salk](#) (1914–1995), U.S. – injection [Polio vaccine](#)
- [Robert Salmon](#) (1763–1821), England – agricultural implements
- [Franz San Galli](#) (1824–1908), Poland/Russia ([Italian](#) and [German](#) descent) – [radiator](#), [central heating](#)
- [Frederick Sanger](#) (1918–2013), U.S. – [Sanger sequencing](#) (= DNA sequencing)
- [Larry Sanger](#) (born 1968), together with Jimmy Wales, U.S. – [Wikipedia](#)
- [Yoshiyuki Sankai](#) (born c. 1957), Japan – [Robotic exoskeleton for motion support](#) (medicine)
- [Alberto Santos-Dumont](#) (1873–1932), Brazil – [non-rigid airship](#) and [airplane](#)
- [Arthur William Savage](#) (1857–1938) – [radial tires](#), [gun magazines](#), [Savage Model 99 lever action rifle](#)
- [Thomas Savery](#) (1650–1715), UK – [steam engine](#)
- [Adolphe Sax](#) (1814–1894), Belgium – [saxophone](#)
- [Vincent Joseph Schaefer](#) (1906–1993), U.S. – [Cloud seeding](#) by [dry ice](#)
- [Bela Schick](#) (1877–1967), Hungary – [diphtheria test](#)
- [Wilhelm Schickard](#) (1592–1635), Germany – mechanical calculator
- [Hugo Schiff](#) (1834–1915), Germany – [Schiff test](#) (histology)
- [Pavel Schilling](#) (1786–1837), [Estonia](#)/Russia – first [electromagnetic telegraph](#), [mine](#) with an electric fuse
- [Gilmore Schjeldahl](#) (1912–2002), U.S. – [Airsickness bag](#)
- [Hubert Schlaflay](#) (1919–2011), U.S. – [Teleprompter](#) = [Autocue](#)
- [Wilhelm Schlenk](#) (1879–1943), Germany – [Schlenk flask](#) (chemistry)
- [Bernhard Schmidt](#) (1879–1935), [Estonia](#)/Germany – [Schmidt camera](#)
- [Friedrich Schmiedl](#) (1902–1994), Austria – rocket mail
- [Otto Schmitt](#) (1913–1998), U.S. – [Schmitt trigger](#) (electronics)
- [Christian Schnabel](#) (1878–1936), German – simplistic food cutleries
- [Kees A. Schouhamer Immink](#) (born 1946), Netherlands – Major contributor to development of [Compact Disc](#)
- [August Schrader](#) (1807–1894), U.S. – [Schrader valve](#) for [Pneumatic tire](#)
- [David Schwarz](#) (1852–1897), [Croatia](#), – rigid ship, later called [Zeppelin](#)
- [Raymond Scott](#) (1908–1994), U.S. – inventor and developer of electronic music technology
- [Girolamo Segato](#) (1792–1836), Italy – artificial [petrification](#) of human [cadavers](#)
- [Marc Seguin](#) (1786–1875), France – [wire-cable suspension bridge](#)
- [Hanaoka Seishū](#) (1760–1835), Japan – [General anaesthetic](#)
- [Ted Selker](#) (inv. 1987), U.S. – [Pointing stick](#)
- [Sennacherib](#) (705–681 BC), [Iraq](#) ([Mesopotamia](#)) – [screw pump](#)
- [Léon Serpollet](#) (1858–1907), France – [Flash boiler](#), [Gardner-Serpollet steam car](#)
- [Iwan Serrurier](#) (1878–1953), Netherlands/U.S. – inventor of the [Moviola](#) for [film editing](#)
- [Mark Serrurier](#) (1904–1988), U.S. – [Serrurier truss](#) for [Optical telescopes](#)
- [Gerhard Sessler](#) (born 1931), Germany – [foil electret microphone](#), [silicon microphone](#)
- [Guy Severin](#) (1926–2008), Russia – [extra-vehicular activity](#) supporting system
- [Ed Seymour](#) (inv. c. 1949), U.S. – [Aerosol paint](#)

Inventions and their Inventors

- [Leonty Shamshurenkov](#) (1687–1758), Russia – first [self-propelling carriage](#) (a precursor to both [bicycle](#) and [automobile](#)), projects of an original [odometer](#) and self-propelling [sledge](#)
- [Ibn al-Shatir](#) (1304–1375), [Syria](#) – "jewel box" device which combined a compass with a universal sundial
- [Bi Sheng](#) (Chinese: 畢昇) (c. 990–1051), China – [clay movable type printing](#)
- [Patsy O'Connell Sherman](#) (1930–2008), U.S. — [Scotchgard](#)
- [Murasaki Shikibu](#) (c. 973–1025), Japan – [psychological novel](#)
- [Pyotr Shilovsky](#) (1871–1957), Russia/United Kingdom – [gyrocar](#)
- [Masatoshi Shima](#) (born 1943), Japan – [microprocessor](#)
- [Fathullah Shirazi](#) (c. 1582), [Mughal India](#) – early [volley gun](#)
- [Joseph Shivers](#) (1920–2014), U.S. – [Spandex](#)
- [William Bradford Shockley](#) (1910–1989), U.S. – co-inventor of [transistor](#)
- [Henry Shrapnel](#) (1761–1842), UK – [Shrapnel shell](#) ammunition
- [Vladimir Shukhov](#) (1853–1939), Russia – [thermal cracking](#) ([Shukhov cracking process](#)), [thin-shell structure](#), [tensile structure](#), [hyperboloid structure](#), [gridshell](#), [oil pipeline](#), [cylindric oil depot](#)
- [Sheikh Muszaphar Shukor](#) (born 1972), [Malaysia](#) – [cell growth in outer space](#), [crystallization of proteins](#) and [microbes](#) in space
- [Augustus Siebe](#) (1788–1872), Germany/UK – Inventor of the [standard diving dress](#)
- [Sir William Siemens](#) (1823–1883), Germany – [regenerative furnace](#)
- [Werner von Siemens](#) (1816–1892), Germany – electric [elevator](#), [Electromote](#) (= first [trolleybus](#)), an early [Dynamo](#)
- [Al-Sijzi](#) (c. 945–1020), [Persia/Iran](#) – [heliocentric astrolabe](#)
- [Igor Sikorsky](#) (1889–1972), Russia/U.S. – first four-engine [fixed-wing aircraft](#) ([Russky Vityaz](#)), first [airliner](#) and purpose-designed [bomber](#) ([Ilya Muromets](#)), [helicopter](#), [Sikorsky-series helicopters](#)
- [Bernard Silver](#) (1924–1963), together with [Norman Joseph Woodland](#) (1921–2012), U.S. – [Barcode](#)
- [Kia Silverbrook](#) (born 1958), Australia – [Memjet printer](#), world's most [prolific inventor](#)
- [Vladimir Simonov](#) (1935–2020), Russia – [APS Underwater Assault Rifle](#), [SPP-1 underwater pistol](#)
- [Charles Simonyi](#) (born 1948), Hungary – [Hungarian notation](#)
- [Ibn Sina \(Avicenna\)](#) (980–1037), [Persia/Iran](#) – [steam distillation](#), [essential oil](#), [pharmacopoeia](#), [clinical pharmacology](#), [clinical trial](#), [randomized controlled trial](#), [quarantine](#), [cancer surgery](#), [cancer therapy](#), [pharmacotherapy](#), [phytotherapy](#), [Hindiba](#), [Taxus baccata L.](#), [calcium channel blocker](#)
- [Isaac Singer](#) (1811–1875), U.S. – [sewing machine](#)
- [B. F. Skinner](#) (1904–1990), U.S. – [Operant conditioning chamber](#)
- [Nikolay Slavyanov](#) (1854–1897), Russia – [shielded metal arc welding](#)
- [Alexander Smakula](#) (1900–1983), [Ukraine/Russia/U.S.](#) – [anti-reflective coating](#)
- [Michael Smith](#) (1932–2000), U.S. – [Site-directed mutagenesis](#) (molecular biology)
- [Oliver Smithies](#) (1925–2017), together with [Sir Martin John Evans](#) (born 1941), and [Mario Ramberg Capecchi](#) (born 1937), U.S. – [Knockout mouse](#), [Gene targeting](#)
- [Yefim Smolin](#), Russia – [table-glass](#) (*stakan granyonyi*)
- [Friedrich Soennecken](#) (1848–1919), Germany – [Ring binder](#), [Hole punch](#)

Inventions and their Inventors

- Su Song (1020–1101), China – first [chain drive](#)
- Marin Soljačić (born 1974), Croatia – [Resonant inductive coupling](#)
- Edwin Southern (born 1938), U.S. – [Southern blot](#) (molecular biology)
- Alfred P. Southwick (1826–1898), U.S. – [Electric chair](#)
- Igor Spassky (born 1926), Russia – [Sea Launch](#) platform
- Percy Spencer (1894–1970), U.S. – [microwave oven](#)
- Elmer Ambrose Sperry (1860–1930), U.S. – gyroscope-guided [automatic pilot](#)
- Lyman Spitzer (1914–1997), U.S. – [Stellarator](#) (physics)
- Bhargav Sri Prakash (born 1977), India/U.S. – [Digital Vaccines](#), Learnification platform at [FriendsLearn](#), [Virtual Reality](#) System, [electromagnetic](#) collision avoidance system, [OBD](#) based in-vehicle [powertrain](#) performance measurement, rate based driver controls for [drive by wire](#) systems
- Ladislav Starevich (1882–1965), Russia/France – [puppet animation](#), [live-action/animated film](#)
- Gary Starkweather (1938–2019), U.S. – [laser printer](#), [color management](#)
- Boris Stechkin (1891–1969), Russia – co-developer of [Sikorsky Ilya Muromets](#) and [Tsar Tank](#), developer of Soviet [heat](#) and [aircraft engines](#)
- George Stephenson (1781–1848), UK – [steam railway](#)
- Simon Stevin (1548–1620), Netherlands – [land yacht](#)
- Andreas Stihl (1896–1973), Switzerland/Germany – Electric [chain saw](#)
- Reverend Dr Robert Stirling (1790–1878), Scotland – [Stirling engine](#)
- Aurel Stodola (1859–1942), [Slovakia](#) – [gas turbines](#)
- Aleksandr Stoletov (1839–1896), Russia – first [solar cell](#) based on the outer [photoelectric effect](#)
- Levi Strauss (1829–1902), U.S. – [blue jeans](#)
- John Stringfellow (1799–1883), UK – [aerial steam carriage](#)
- Bjarne Stroustrup (born 1950), Denmark – [C++](#) (programming language)
- Almon Strowger (1839–1902), U.S. – [automatic telephone exchange](#)
- Emil Strub (1858–1909), Switzerland – [Strub rack railway system](#)
- Abd al-Rahman al-Sufi (Azophi) (903–986), [Persia/Iran](#) – timekeeping [astrolabe](#), [navigational astrolabe](#), [surveying astrolabe](#)
- René Núñez Suárez (born 1945/1946), [El Salvador](#) – "turbococina" (turbo-cooker)
- Kyota Sugimoto (1882–1972), Japan – [Japanese language typewriter](#)
- Mutsuo Sugiura (1918–1986), Japan – [Esophagogastroduodenoscope](#)
- Pavel Sukhoi (1895–1975), Russia – [Su-series fighter aircraft](#)
- Simon Sunatori (born 1959), Canada – inventor of [MagneScribe](#) and [Magic Spicer](#)
- Sushruta (600 BC), [Vedic India](#) – inventor of [Plastic Surgery](#), [Cataract Surgery](#), [Rhinoplasty](#)
- Theodor Svedberg (1884–1971), Sweden – [Analytical ultracentrifuge](#)
- Joseph Swan (1828–1914), UK – [Incandescent light bulb](#)
- Robert Swanson (1905–1994), Canada – Invented and developed the first multi-chime [air horn](#) for use with [diesel locomotives](#)
- Remi Swierczek (born 1958), Poland – Inventor of [Music Identification System](#) and the [Mico Changer](#) (coin hopper and dispenser used in casinos)
- Andrei Sychra (c.1773/76–1850), [Lithuania/Russia](#), [Czech](#) descent – [Russian seven-string guitar](#)

Inventions and their Inventors

- [Walter Sylvester](#) (1867–1944), UK – the "Sylvester", for safely removing pit props
- [Vladimir Syromyatnikov](#) (1933–2006), Russia – [Androgynous Peripheral Attach System](#) and other [spacecraft](#) docking mechanisms
- [Simon Sze](#) (born 1936), Taiwan/U.S., together with [Dawon Kahng](#) (1931–1992), South Korea – [Floating-gate MOSFET](#)
- [Leó Szilárd](#) (1898–1964), Hungary/U.S. – Co-developed the [atomic bomb](#), patented the [nuclear reactor](#), catalyst of the [Manhattan Project](#)

T

- [Muhammad Salih Tahtawi](#) (fl.1659–1660), [Mughal India](#) – seamless [globe](#) and [celestial globe](#)
- [Gyula Takátsy](#) (1914–1980), Hungary – first [Microtiter plate](#)
- [Esther Takeuchi](#) (born 1953) – holds more than 150 US-patents, the largest number for any woman in the United States
- [Igor Tamm](#) (1895–1971), Russia – co-developer of [tokamak](#)
- [Ching W. Tang](#) (born 1947), Hong Kong/U.S., together with [Steven Van Slyke](#), U.S. – [OLED](#)
- [Mardi bin Ali al-Tarsusi](#) (c. 1187), Middle East – counterweight [trebuchet](#), [mangonel](#)
- [Gustav Tauschek](#) (1899–1945), Austria – [Drum memory](#)
- [Kenyon Taylor](#) (1908-1986), U.S. – [Flip-disc display](#)
- [Bernard Tellegen](#) (1900–1990), Netherlands – [pentode](#)
- [Edward Teller](#) (1908–2003), Hungary – [hydrogen bomb](#)
- [Eli Terry](#) (1772–1852)
- [Nikola Tesla](#) (1856–1943), Croatia/Serbia – [induction motor](#), high-voltage / high-frequency power experiments, the transmission of electrical power
- [Léon Theremin](#) (1896–1993), Russia – [theremin](#), [interlace](#), [burglar alarm](#), [terpsitone](#), [Rhythmicon](#) (first [drum machine](#)), [The Thing](#) (listening device)
- [Charles Xavier Thomas de Colmar](#) (1785–1870), France – [Arithmometer](#)
- [Elihu Thomson](#) (1853–1937), UK, U.S. – Prolific inventor, [Arc lamp](#) and many others
- [William Thomson, 1st Baron Kelvin](#) (1824–1907), United Kingdom – [Kelvin](#) absolute temperature scale
- [Eric Tigerstedt](#) (1887–1925), Finland – [Sound-on-film](#), triode [vacuum tube](#)
- [Kalman Tihanyi](#) (1897–1947), Hungary – co-inventor of [cathode ray tube](#) and [iconoscope](#)
- [Mikhail Tikhonravov](#) (1900–1974), Russia – co-developer of [Sputnik 1](#) (the first artificial satellite) together with [Korolyov](#) and [Keldysh](#), designer of further [Sputniks](#)
- [Gavriil Adrianovich Tikhov](#) (1875–1960), Russia – feathering [spectrograph](#)
- [Benjamin Chew Tilghman](#) (1821–1897), U.S. – [sandblasting](#)
- [Fedor Tokarev](#) (1871–1968), Russia – [TT-33](#) semiautomatic handgun and [SVT-40](#) self-loading rifle
- [Ray Tomlinson](#) (1941-2016), U.S. – First inter-computer [email](#)
- [Evangelista Torricelli](#) (1608–1647), Italy – [barometer](#)
- [Alfred Traeger](#) (1895–1980), Australia – [Pedal radio](#)
- [Richard Trevithick](#) (1771–1833), UK – high-pressure [steam engine](#), first full-scale [steam](#)

Inventions and their Inventors

locomotive

- [Franc Trkman](#) (1903–1978), [Slovenia](#) – electrical switches, accessories for opening windows
- [Hans Tropsch](#) (1889–1935), together with [Franz Joseph Emil Fischer](#) (1877–1947), Germany – [Fischer–Tropsch process](#) (refinery process)
- [Yuri Trutnev](#) (born 1927), Russia – co-developer of the [Tsar Bomb](#)
- [Roger Y. Tsien](#) (1952–2016), together with [Osamu Shimomura](#) (1928–2018) and [Martin Chalfie](#) (born 1947), U.S. – Discovery and development of [Green fluorescent protein](#)
- [Konstantin Tsiolkovsky](#) (1857–1935), Russia – [spaceflight](#)
- [Mikhail Tsvet](#) (1872–1919), Russia – [chromatography](#) (specifically [adsorption chromatography](#), the first chromatography method)
- [Alexei Tupolev](#) (1925–2001), Russia – the [Tupolev Tu-144](#) (first [supersonic](#) passenger jet)
- [Andrei Tupolev](#) (1888–1972), Russia – [turboprop](#) powered long-range airliner ([Tupolev Tu-114](#)), [turboprop](#) strategic bomber ([Tupolev Tu-95](#))
- [Nasīr al-Dīn al-Tūsī](#) (1201–1274), [Persia/Iran](#) – [observatory](#), [Tusi-couple](#)
- [Sharaf al-Dīn al-Tūsī](#) (1135–1213), [Persia/Iran](#) – linear [astrolabe](#)
- [Ralph Hart Tweddell](#) (1843–1895), England – portable hydraulic riveter

U

- [Shintaro Uda](#) (1869–1976), together with [Hidetsugu Yagi](#) (1886–1976), Japan – [Yagi-Uda antenna](#)
- [Lewis Urry](#) (1927–2004), Canada – long-lasting [alkaline battery](#)
- [Tomislav Uzelac](#), Croatia – first successful MP3 player, AMP

V

- [Ira Van Gieson](#) (1866–1913), U.S. – [Van Gieson's stain](#) (histology)
- [Theophilus Van Kannel](#) (1841–1919), United States – [revolving door](#) (1888)
- [Vladimir Veksler](#) (1907–1966), Russia – [synchrophasotron](#), co-inventor of [synchrotron](#)
- [John Venn](#) (1834–1923), UK – [Venn diagram](#) (1881)
- [Auguste Victor Louis Verneuil](#) (1856–1913), France – [Verneuil process](#) (crystal growth)
- [Pierre Vernier](#) (1580–1637), France – [Vernier scale](#) (1631)
- [Lucien Vidi](#) (1805–1866), France – [Barograph](#)
- [Edgar Villchur](#) (1917–2011), U.S. – [Acoustic suspension](#) (loudspeaker)
- [Artturi Ilmari Virtanen](#) (1895–1973), Finland – [AIV fodder](#)
- [Alessandro Volta](#) (1745–1827), Italy – [battery](#), see also [Voltaic pile](#)
- [Bernard Vonnegut](#) (1914–1997), together with [Henry Chessin](#), and [Richard E. Passarelli Jr.](#), U.S. – [Cloud seeding](#) by [silver iodide](#)
- [Ivan Vučetić](#) (1858–1925), Croatia – Method of [fingerprint](#) classification

Inventions and their Inventors

W

- [Ruth Graves Wakefield](#) (1903–1977), U.S. – [chocolate chip cookie](#)
- [Paul Walden](#) (1863–1957), [Latvia](#)/Russia/Germany – [Walden inversion](#), [Ethylammonium nitrate](#) (the first room temperature [ionic liquid](#))
- [Jimmy Wales](#) (born 1966), together with Larry Sanger, U.S. – Wikipedia
- [Madam C.J. Walker](#) (1867–1919), U.S. – beauty and hair products for African American women
- [Barnes Wallis](#) (1887–1979), UK – [bouncing bomb](#)
- [Frederick Walton](#) (c. 1834–1928), UK – [Linoleum](#)
- [Maurice Ward](#) (1933–2011), UK – [Starlite](#)
- [Aldred Scott Warthin](#) (1866–1931), together with Allen Chronister Starry (1890–1973), U.S. – [Warthin–Starry stain](#) (histology)
- [Robert Watson-Watt](#) (1892–1973), Scotland – microwave [radar](#)
- [James Watt](#) (1736–1819), Scotland – improved [Steam engine](#)
- [Thomas Wedgwood](#) (1771–1805), UK – first (not permanent) photograph
- [Carl Auer von Welsbach](#) (1858–1929), Austria – [Gas mantle](#), [ferrocium](#)
- [Jonas Wenström](#) (1855–1893), Sweden – [three-phase electrical power](#)
- [George Westinghouse](#) (1846–1914), U.S. – [Air brake](#) (rail)
- [Charles Wheatstone](#) (1802–1875), UK – [concertina](#), [stereoscope](#), [microphone](#), [Playfair cipher](#), [pseudoscope](#), [dynamo](#)
- [Richard T. Whitcomb](#) (1921–2009), U.S. – [Supercritical airfoil](#), [Winglet](#)
- [Eli Whitney](#) (1765–1825), U.S. – the [cotton gin](#)
- [Frank Whittle](#) (1907–1996), UK – co-inventor of the [jet engine](#)
- [Otto Wichterle](#) (1913–1989), [Czechoslovakia](#) – soft [contact lens](#)
- [Norman Wilkinson](#) (1878–1971), UK – [Dazzle camouflage](#)
- [Charles Thomson Rees Wilson](#) (1869–1959), UK – [Cloud chamber](#)
- [Paul Winchell](#) (1922–2005), U.S. – the [artificial heart](#)
- [Sergei Winogradsky](#) (1856–1953), Russia / USSR – [Winogradsky column](#) for culturing microorganisms
- [Niklaus Wirth](#) (born 1934), Switzerland – [Pascal \(programming language\)](#)
- [A. Baldwin Wood](#) (1879–1956), U.S. – high volume pump
- [Norman Joseph Woodland](#) (1921–2012), together with [Bernard Silver](#) (1924–1963), U.S. – [Barcode](#)
- [Granville Woods](#) (1856–1910), U.S. – the Synchronous Multiplex Railway Telegraph
- [Steve Wozniak](#) (born 1950), U.S. – [Apple I & II](#) computers, early [Macintosh](#) concepts, [CL 9 CORE universal remote](#) and other devices and applications.
- [James Homer Wright](#) (1869–1928), U.S. – [Wright's stain](#) (histology)
- [Wright brothers](#), Orville (1871–1948) and Wilbur (1867–1912) – U.S. – [powered airplane](#)
- [Arthur Wynne](#) (1862–1945), UK – creator of [crossword puzzle](#)

Inventions and their Inventors

X

- [Yi Xing](#) (683–727), China – [Astronomical clock](#)

Y

- [Pavel Yablochkov](#) (1847–1894), Russia – [Yablochkov candle](#) (first commercially viable electric carbon [arc lamp](#))
- [Hidetsugu Yagi](#) (1886–1976), together with [Shintaro Uda](#) (1896–1976), Japan – [Yagi-Uda antenna](#)
- [Alexander Yakovlev](#) (1906–1989), Russia – [Yak-series aircraft](#), including [Yakovlev Yak-40](#) (the first [regional jet](#))
- [Linus Yale Jr.](#) (1821–1868), U.S. – [cylinder lock](#)
- [Linus Yale Sr.](#) (1797–1858), U.S. – [pin tumbler lock](#)
- [Shunpei Yamazaki](#) (born 1942), Japan – patents in [computer science](#) and [solid-state physics](#), see [List of prolific inventors](#)
- [Gazi Yasargil](#) (born 1925), Turkey – [Microneurosurgery](#)
- [Ryōichi Yazu](#) (1878–1908), Japan – [Yazu Arithmometer](#)
- [Gunpei Yokoi](#) (1941–1997), Japan – [Game Boy](#)
- [Arthur M. Young](#) (1905–1995), U.S. – the [Bell Helicopter](#)
- [Vladimir Yourkevitch](#) (1885–1964), Russia/France/U.S. – ship [hull](#) design
- [Tu Youyou](#) (born 1930), China – [Artemisinin](#)
- [Sergei Yudin](#) (1891–1954), Russia – [cadaveric blood transfusion](#) and other medical operations
- [Muhammad Yunus](#) (born 1940), [Bangladesh](#) – [microcredit](#), [microfinance](#)
- [Abu Yusuf Yaqub](#) (c. 1274), [Morocco/Spain](#) – [siege cannon](#)
- [Abraham Albert Yuzpe](#) (born 1938), U.S. – [Yuzpe regimen](#) (= form of [Emergency contraception](#))

Z

- [Abu al-Qasim al-Zahrawi](#) (Abulcasis) (936–1013), [Islamic Spain](#) – [catgut surgical suture](#), various surgical instruments and dental devices
- [Frank Zamboni](#) (1901–1988), U.S. – [Ice resurfacers](#)
- [Giuseppe Zamboni](#) (1776–1846), Italy – [Zamboni pile](#) (early battery)
- [Ludwik Łazarz Zamenhof](#) (1859–1917), Russia/Poland – [Esperanto](#)
- [Walter Zapp](#) (1905–2003), Latvia/Estonia/Germany – [Minox](#) (subminiature camera)
- [Abū Ishāq Ibrāhīm al-Zarqālī](#) (Arzachel) (1028–1087), [Islamic Spain](#) – [almanac](#), [equatorium](#), universal [astrolabe](#)
- [Yevgeny Zavoisky](#) (1907–1976), Russia – [EPR spectroscopy](#), co-developer of [NMR spectroscopy](#)

Inventions and their Inventors

- [Nikolay Zelinsky](#) (1861–1953), Russia – the first effective filtering coal [gas mask](#) in the world
- [Ferdinand von Zeppelin](#) (1838–1917), Germany – [Zeppelin](#)
- [Frits Zernike](#) (1888–1966), The Netherlands – [Phase contrast microscope](#)
- [Tang Zhongming](#) (1897–1980), China – [internal combustion engine](#) powered by [charcoal](#)
- [Jian Zhou](#) (1957–1999), together with [Ian Hector Frazer](#) (1953–), China/U.S. – [HPV vaccine](#) against [cervical cancer](#)
- [Nikolai Zhukovsky](#) (1847–1921), Russia – an early [wind tunnel](#), co-developer of the [Tsar Tank](#)
- [Karl Ziegler](#) (1898–1973), together with [Giulio Natta](#) (1903–1979), Germany/Italy – [Ziegler–Natta catalyst](#)
- [Franz Ziehl](#) (1857–1926), together with [Friedrich Neelsen](#) (1854–1898), Germany – [Ziehl–Neelsen stain](#) (histology)
- [Konrad Zuse](#) (1910–1995), Germany – invented the first programmable general-purpose computer ([Z1](#), [Z2](#), [Z3](#), [Z4](#))
- [Vasily Zvyozdochkin](#) (1876–1956), Russia – [matryoshka doll](#) (together with [Sergey Malyutin](#))
- [Vladimir Zworykin](#) (1889–1982), Russia/U.S. – [Iconoscope](#), [kinescope](#).