

I'm not a robot



the curved pieces of wood or metal used in horse harnesses.The names, which formed the rigid structure of horse collars, were vital in distributing the load and ensuring that the pulling force was applied evenly. Recognizing the need for a more durable and effective method, Abrams designed an improved horse attachment that provided greater security and stability. 2. **Alcorn, George** Edward: Alcorn's work in electrical engineering and his invention of the X-ray spectrometer for distant galaxies earned him the Nobel Prize. His additional information: Alcorn is best known as the inventor of the Imaging X-Ray Spectrometer. This ultimately earned him the NASA Goddard Space Flight Center award of the Year in 1984. George was born in March of 1940 and would later earn his B.A. in Physics in 1962, a Masters in 1963 and a Ph.D. in 1967. He worked spent a large portion of his career at NASA. Alcorn has around 20 other inventions to his name too.3. **Allen, C. W.** Selected Invention(s): Self-levelling Table (Date: November 1, 1898, Patent No: 6134364). Allen, J. B. Selected Invention(s): Clothes Line Support (Date: December 12, 1895, Patent No: 5511055). Ashbourne, A. P. Selected Invention(s): Process For Preparing Coconut For Domestic Use (Date: June 1, 1875, Patent No: 163962) Biscuit Cutter (Date: November 30, 1875, Patent No: 170460) Refining Coconut Oil (Date: July 27, 1880, Patent No: 230518) Process of Treating Coconut (Date: August 21, 1877, Patent No: 1942876). Bailes, Wm. Selected Invention(s): Ladder Scaffold-Support (Date: August 5, 1879, Patent No: 2181547). Bailey, L. C. Selected Invention(s): Combined Truss and Bandage (Date: September 25, 1883, Patent No: 285545) Folding Bed (Date: July 18, 1899, Patent No: 629286)Additional information: Bailey was born in 1825 into poverty and was physically disabled. He would go on to receive various patents for his inventions.Bailey also invented the rapid mail-stamping machine, a device to shut trains to different tracks, and a hernia truss that was adopted by the United States Military. He died in 1905.8. **Baillif, C. O.** Selected Invention(s): Shampoo Headrest (Date: October 11, 1898, Patent No: 6120089). Ballow, W. J. Selected Invention(s): Combined Hat rack and Table (Date: March 29, 1898, Patent No: 601422) Design for Sign (Date: August 19, 1898, Patent No: 2919312). Bashen, Janet Selected Invention(s): Case management and tracking software (Date: January 10, 2006, Patent No: 6,985,922)13. Bath, PatriciaSource:National Library of Medicine/Wikimedia Commons - National Library of Medicine/Wikimedia CommonsSelected Invention(s): The Cataract Laserphaco Probe (Date: 17th December 1986, Patent No: 474360)Additional information: Bath was born in Harlem and would go on to become a pioneering ophthalmologist, inventor, and scientist who is known for inventing a tool and procedure for the removal of cataracts using a laser beam, called the Laserphaco Probe. Bath was born in 1942 in New York and was the daughter of the first African-American woman to work in the NYC subway. She would show an early interest and ability in science at a young age. This passion would drive her onwards and upwards. In 1973, Bath became the first African-American to complete a residency in ophthalmology. Shewas the first woman ophthalmologist to be appointed to the faculty of the University of California at Los Angeles School of Medicine Jus Stejn Eye Institute and the first woman to chair an ophthalmology residency program in the United States.14. Beard, A. J. Selected Invention(s): Car Coupler (Date: November 23, 1897, Patent No: 594059) Rotary Engine (Date: July 5, 1892, Patent No: 478271)15. Becket, G. E. Selected Invention(s): Letter Box (Date: October 4, 1892, Patent No: 483525)16. Bell, L. Selected Invention(s): Locomotive Smoke Stack (Date: May 23, 1871, Patent No: 115153) Dough Kneader (Date: Dec. 10, 1872, Patent No: 1338231). Benjamin, L. W. Selected Invention(s): Broom Moisteners and Bridles (Date: May 16, 1893, Patent No: 497747)18. Benjamin, M. E. Selected Invention(s): Gong and Signal Chars for Hotels (Date: July 17, 1888, Patent No: 386289) Street Sprinkling Apparatus (Date: July 22, 1879, Patent No: 21784320). Blackburn, A. B. Selected Invention(s): Railway Signal (Date: January 10, 1888, Patent No: 376362) Spring Seat for Chairs (Date: April 3, 1888, Patent No: 380420) Cash Carrier (Date: October 23, 1888, Patent No: 391577)21. Blair, Henry Selected Invention(s): Seed Planter (Date: October 14, 1834, Patent No: X8447) Cotton Planter (Date: August 31, 1836, Patent No: 1532). Blue, L. Selected Invention(s): Hand Corn Shelling Device (Date: May 20, 1884, Patent No: 298937)23. Booker, L. F. Selected Invention(s): Design Rubber Scraping Knife (Date: March 28, 1899, Patent No: 304042)4. Boone, Sarah Selected Invention(s): Ironing Board (Date: April 26, 1892, Patent No: 473653)Additional information: Sarah Boone was born a slave in 1832 in North Carolina and would go on to develop a special type of ironing board. Her invention was made from a narrow wooden board that had collapsible legs, with the entire device having a padded cover. Patented in 1892, the most common ironing board was a simple flat wooden board with a pair of chairs.25. Bowman, A. Selected Invention(s): Making Flags (Date: February 29, 1892, Patent No: 469392)6. Boykin, Dis. Selected Invention(s): Electric Resistor (Date: Apr 21, 1928, Patent No: 287272)Additional information: Ice. This Boykin was born in Dallas, Texas on August 29, 1920. After his invention of the control unit for pacemakers, he would ironically die from a heart attack in 1982. Boykin would graduate from Fisk College, Tennessee in 1941 and later took up work at in 1945 P.J. Nilsen Research Laboratories to fund further studies at Illinois Institute of Technology. He dropped out two years later and started his own business in 1947.27. Bradberry, Henrietta Selected Invention(s): Additional information: Benjamin was born a slave, probably in 1830, and was taught to read and write by his masters children. He would show a talent for invention and later devised the first steam engine for a ship. Showing a great natural talent for invention, his master referred him to the United States Naval Academy in Annapolis, Maryland to take up a position as an assistant in their Department of Natural and Experimental Philosophy. Hewas the first African American to hold any non-memial post at the Naval Academy. It was here that he developed his own design for a steam engine. Being a slave, he was not able to patent his invention he did sell the rights to it, however, and used the money to buy his own freedom.29. Brooks, O. B. Selected Invention(s): Punch (Date: October 31, 1893, Patent No: 507672) Street Sweeper (Date: March 17, 1896, Patent No: 556711) Street Sweepers (Date: May 12, 1896, Patent No: 560154)30. Brooks, O. B., Hallstead, G. M., and Page, S. Selected Invention(s): Street Sweepers (Date: April 21, 1896, Patent No: 558719)31. Brown, Henry Selected Invention(s): Receptacle for Storing and Preserving Papers (Date: November 2, 1886, Patent No: 352036)Additional information: The box designed by Brown used a series of hinged trays to separate papers and store them securely. It was especially useful for storing carbon papers, which could be damaged by scraping against the lid or other documents. The invention was a precursor to the personal safe. Although it was not the first patent for a strongbox, it was an improvement.32. Brown, L. F. Selected Invention(s): Brdle Bit (Date: October 25, 1892, Patent No: 484943)33. Brown, Marie Van Brittan, and Brower, Albert Selected Invention(s): Home security system utilizing television surveillance (Date: December 2, 1963, Patent No: 3482073)Additional information: Marie V. B. Brown was born in 1922 and as an adult, she lived a crime-ridden neighborhood of Queens, NYC. Brown worked as a nurse, and her husband, Albert Brown, was an electronics technician. Their work hours meant that Brown was often home by herself. Concerned about the slow police response times to their neighborhood, Brown created a system that would allow her to know who was at her home and contact authorities quickly in the event of a break-in. Her original invention was included phones, a camera, monitors, a two-way microphone, and an alarm button to contact the police. Browns security system was the foundation for modern, two-way communication and surveillance systems. Browns invention gained her an award from the National Scientists Committee.34. Burr, J. A. Selected Invention(s): Lawn Mower (Date: May 9, 1889, Patent No: 627479) Substitute for Inking Ribbons on Typewriters (Date: January 12, 1897, Patent No: 575145)36. Burwell, W. Selected Invention(s): Boot or Shoe (Date: November 28, 1899, Patent No: 638043)37. Butler, R. A. Selected Invention(s): Train Alarm (Date: June 15, 1897, Patent No: 584540)38. Butts, J. W. Selected Invention(s): Luggage Carrier (Date: October 10, 1899, Patent No: 634611)39. Byrd, T. J. Selected Invention(s): Improvement in Holders for Reins for Horses (Date: February 6, 1872, Patent No: 123328) Apparatus for Detaching Horses From Carriages (Date: March 19, 1872, Patent No: 124790) Improvement in Neck Yokes For Wagons (Date: April 30, 1872, Patent No: 126181) Improvement in Car Couplings (Date: December 1, 1874, Patent No: 1573070)40. Campbell, W. S. Selected Invention(s): Self-Setting Animal Trap (Date: August 30, 1881, Patent No: 246369) Invalid Cot (Date: July 25, 1899, Patent No: 629584)42. Carrington, T. A. Selected Invention(s): Cooking Range (Date: July 25, 1876, Patent No: 180323)43. Carruthers, George R. Selected Invention(s): Image converter for detecting electromagnetic radiation, especially in short wavelengths (Date: November 11, 1966, Patent No: 3478216)44. Carter, W. G. Selected Invention(s): Umbrella Stand (Date: August 4, 1885, Patent No: 323397)45. Carter, George WashingtonSource:National Park Service Selected Invention(s):Cosmetics (Date: December 10, 1878, Patent No: 210764)69. Dorrice, C. J. Selected Invention(s): Device for Applying Coloring to Sides of Shoes Or Heels of Shoes (Date: April 16, 1895, Patent No: 537442) Photograph Print Wash (Date: April 23, 1895, Patent No: 537968) Hoop Leak Stop (Date: July 18, 1899, Patent No: 629315)70. Downing, Gertrude E. Selected Invention(s): Corner and Baseboard Cleaner Attachment for Rotary Floor Treatment Machines (Date: February 13, 1973, Patent No: 3715772) Electric Switch for Railroad (Date: July 17, 1890, Patent No: 430118) Street Letter Box (Date: October 27, 1891, Patent No: 462099)72. Drew, Charles R. M. Selected Invention(s): Apparatus For Preserving Blood/Plasma Bag (Date: November 10, 1942, Patent No: 230170)73. Dunnington, J. H. Selected Invention(s): Horse Detachers (Date: March 16, 1897, Patent No: 578979)74. Edmonds, T. H. Selected Invention(s): Separating Screens (Date: July 20, 1897, Patent No: 586724)75. Eglin, EllenSource:Library of Congress/Wikimedia Commons Selected Invention(s): Improved Clothes Ringer (Date: September 8, 1891, Patent No: 459343) sold to the registered patent holder O. Wheeler. Additional information: Little is known about Ellen Eglin except she was born in 1849 and worked as a housekeeper and is the inventor of a mechanical clothes wringer. Afraid that no one would buy the invention because of her race, she sold her invention to an agent for a pittance in 1888. She died in 1890 without having received any recognition for her service in her lifetime. Bidirectional monitoring and control system (Date: December 28, 1976, Patent No: 4000400)77. Elkins, T. Selected Invention(s): Dining, Ironing Table, and Quilting Frame Combined (Date: January 9, 1872, Patent No: 122518) Refrigerating Apparatus (Date: November 4, 1879, Patent No: 221222)78. Evans, J. H. Selected Invention(s): Curtain Support (Date: August 4, 1896, Patent No: 565078)79. Gray, R. H. Selected Invention(s): Belting Press (Date: August 29, 1894, Patent No: 521634) Air conditioning Unit (Date: July 12, 1949, Patent No: 247538) Gregory, J. Selected Invention(s): Moler (Date: April 26, 1887, Patent No: 361978)80. Grenon, H. Selected Invention(s): Razor Stropping Device (Date: February 18, 1895, Patent No: 554867)90. Griffin, W. P. Selected Invention(s): Table Attachment (Date: June 3, 1895, Patent No: 626902)91. Gunn, W. Selected Invention(s): Adjustable Boot or Shoe (Date: January 16, 1900, Patent No: 841642)92. Haines, J. H. Selected Invention(s): Portable Shampooing Basin (Date: September 28, 1897, Patent No: 590833) Asphalt emulsion and manufacture thereof (Date: October 18, 1932, Patent No: 1,882,834)94. Vitamin Concentrate (Date: November 26, 1935, Patent No: 2,022,464) Manufacture of Nitrogen-Fortified Whey Concentrate (Date: November 28, 1944, Patent No: 2,363,730) Additional information: Lloyd Hall was a Black American inventor, chemist, and scientist. He is best known for his work on food preservation techniques. Hall was born in 1894 in Elgin, Illinois, and earned his degree in B.Sc. in Pharmaceutical Chemistry in 1916. He would later take up employment at Griffiths Laboratories where he would devise his new techniques for food preservation. Hall died in 1971.94. Hammond, J. F. Selected Invention(s): Apparatus for Holding Yarn Skeins (Date: December 15, 1896, Patent No: 572989)95. Harding, F. H. Selected Invention(s): Extension Banquet Table (Date: November 22, 1898, Patent No: 614468) Lantern Or Lamp (Date: August 19, 1884, Patent No: 303844)97. Harper, Solomon Selected Invention(s): Thermostatic controlled hair curlers, combs, and irons (Date: August 11, 1953, Patent No: 264875)98. Harris, Dr. Betty Wright Selected Invention(s): ATB Spot Test for 1,3,5-triamino-2,4,6-trinitrobenzene, TATB (Date: October 21, 1988, Patent No: 4618452) Additional information: Dr. Betty Harris is an American organic analytical chemist, a leading expert in explosives, environmental remediation, and hazardous waste treatment. She was awarded a patent for her TATB spot test, which identifies explosives in a field environment. She was born in July 1940 in rural Louisiana and was one of 12 children. Harris later earned her Bachelors in Chemistry in 1961 and her Masters in Chemistry in 1963 from the University of North Carolina. She worked for the U.S. Army Research Laboratory at the time of the Vietnam War. She was married to a chemist, Dr. Robert Harris, who was also a chemist. Harris was born in 1911 in Washington, D.C., the grandson of a slave. After graduating from high school he went to Rensselaer Polytechnic Institute, where he was one of only two Black students at the school. He later earned his Doctorate from McGill University, in 1938. In 1942, Hawkins became the first Black person to join the technical staff of Bell Laboratories. While working at Bell Labs, he devised and patented a new polymer plastic cable sheath for cables that could withstand extreme fluctuations in temperature and last up to seventy years. Hawkins retired from Bell Labs in 1976 and worked as the director of research of the Plastics Institute of America until 1983. He died in 1992.99. Harness Attachment (Date: October 4, 1887, Patent No: 370943)102. Headen, M. Selected Invention(s): Foot Power Hammer (Date: October 5, 1886, Patent No: 350363)103. Hears, R. Selected Invention(s): Sealing Attachment for Bottles (Date: February 15, 1898, Patent No: 598929) Detachable Car Fender (Date: July 4, 1899, Patent No: 628003)104. Hilver, A. F. Selected Invention(s): Water Evaporator Attachment For Hot Air Registers (Date: August 26, 1890, Patent No: 435095)105. Hodge, John Selected Invention(s): Multiple camera systems and methods (Date: June 3, 2008, Patent No: 7381952) Substituted benzoxazinone sweetening compound (Date: March 27, 1979, Patent No: 4011665)106. Fifth-wheel braking control (Date: January 25, 1977, Patent No: 4093265)106. Holley, Kerrie L. Selected Invention(s): Personalized content and services based on profile information (Date: May 13, 2019, Patent No: 11165881) Method for capturing evolving data (Date: July 21, 2020, Patent No: 10719500) Dynamic digital shelves using big data (Date: August 27, 2019, Patent No: 10395299)107. Holmes, Lydia M. Selected Invention(s): The Knockdown Wheeled Toy (Date: November 14, 1950, Patent No: 2529692)108. Hull, William E. Selected Invention(s): Sublimation timing switch (Date: November 15, 1966, Patent No: 3286064) Mass release mechanism for satellites (Date: January 28, 1969, Patent No: 3424403)109. Hyde, R. N. Selected Invention(s): Composition for Cleaning and Preserving Carpets (Date: November 6, 1889, Patent No: 3922205)110. Jackson, B. F. Selected Invention(s): Heating Apparatus (Date: March 1, 1898, Patent No: 599095) Matrix Drying Apparatus (Date: May 10, 1898, Patent No: 603979) Gas Burner (Date: February 12, 1957, Patent No: 2780923) Two-Cycle Gas Engine (Date: May 29, 1945, Patent No: 2379688) Starter Generator for Cooling Gas Engines (Date: July 12, 1949, Patent No: 2475843) Two-Cycle Gas Engine (Date: March 11, 1947, Patent No: 2417253) Means for Thermostatically Operating Gas Engines (Date: July 26, 1949, Patent No: 247377) Rotary Compressor (Date: April 18, 1950, Patent No: 2504841) System for Controlling Operation of Refrigeration Units (Date: May 23, 1950, Patent No: 2509099) Apparatus for Heating or Cooling Atmosphere within an Enclosure (Date: October 24, 1950, Patent No: 2526874) Prefabricated Refrigerator Construction (Date: December 26, 1950, Patent No: 2553682) Refrigeration Control Device (Date: January 8, 1952, Patent No: 2581956) Methods and Means of Defrosting a Cold Diffuser (Date: January 19, 1954, Patent No: 2666298) Control Device for Internal Combustion Engine (Date: September 2, 1958, Patent No: 2850001) Thermostat and Temperature Control System (Date: February 23, 1960, Patent No: 2926005) Removable Cooling Units for Compartments (Date: December 14, 1943, Patent No: 2367365) Means for Automatically Stopping & Starting Gas Engines (J.A. Numero et al) (Date: December 21, 1943, Patent No: 2337164)122. Joyce, J. A. Selected Invention(s): Coal or Ore Bucket (Date: April 26, 1898, Patent No: 603143)123. Kelley, George W. Selected Invention(s): Steam Table (Date: October 26, 1897, Patent No: 592591)124. Latimer, L. H. & Brown, C. W. Selected Invention(s): Water Closets for Railway Cars (Date: February 10, 1874, Patent No: 147363)125. Latimer, L. H. & Nichols, J. V. Selected Invention(s): Electric Lamp (Date: September 13, 1881, Patent No: 247097)126. Latimer, L. H. & Tregoning, J. Selected Invention(s): Globe Support for Electric Lamps (Date: March 21, 1882, Patent No: 255212)127. Latimer, L. H. Selected Invention(s): Manufacturing Apparatus (Date: January 17, 1892, Patent No: 252526) Apparatus for Cooling and Disinfecting (Date: January 12, 1886, Patent No: 334078)128. Latimer, L. H. & Tregoning, J. Selected Invention(s): Apparatus for Cooling and Disinfecting (Date: January 10, 1886, Patent No: 334078)129. Lathrop, J. W. Selected Invention(s): Apparatus for Cooling and Disinfecting (Date: January 10, 1886, Patent No: 334078)130. Marshall, Newman R. & Burrige, L. S. Selected Invention(s): Adding Machine (Date: January 23, 1894, Patent No: 513452)141. Martin, Thomas J. Selected Invention(s): Fire Extinguisher (Date: March 26, 1872, Patent No: 125063)142. Martin, W. A. Selected Invention(s): Lock (Date: July 23, 1889, Patent No: 407738) Lock (Date: December 30, 1889, Patent No: 443945) Mechanism for Distributing Tacks (Date: November 26, 1896, Patent No: 415726) Nailing Machine (Date: November 25, 1896, Patent No: 421954) Tack Separating Mechanism (Date: March 25, 1890, Patent No: 423937) Lasting Machine (Date: September 22, 1891, Patent No: 459899) Additional information: Matzinger was born in 1852 in Paramaribo in Dutch Guiana. After experimenting with different designs, Jan Matzinger invented the shoe-lasting machine that adjusted the shoe leather upper to fit snugly over the mold. Jan was born in 1852, the son of Surinamese and Dutch parents in Paramaribo in Dutch Guiana (now called Suriname). He showed interest in mechanics from a young age and began working in machine shops at the age of 10. At 19, he left Suriname as a sailor on an East Indian merchant ship, settling in Philadelphia in 1873. He started work at a shoe factory in 1877 and it was here that he conceived of his invention. Source: Pysilanti Historical Society/Wikimedia Commons Selected Invention(s): Lubricator (Date: May 27, 1873, Patent No: 139407) Lubricator (Date: March 28, 1882, Patent No: 255443) Lubricator (Date: July 18, 1882, Patent No: 261166) Lubricator (Date: June 16, 1885, Patent No: 320379) Lubricator (Date: February 8, 1887, Patent No: 357491) Lubricator (Date: May 29, 1888, Patent No: 383745) Lubricator (Date: May 29, 1888, Patent No: 383746) Lubricator (Date: December 24, 1889, Patent No: 418139) Lubricator (Date: December 29, 1891, Patent No: 465875) Lubricator (Date: April 5, 1892, Patent No: 472066) Lubricator (Date: September 13, 1898, Patent No: 610634) Lubricator (Date: October 4, 1898, Patent No: 611756) Lubricator (Date: November 15, 1899, Patent No: 623908) Lubricator (Date: February 23, 1899, Patent No: 623909) Lubricator (Date: February 23, 1899, Patent No: 623910) Lubricator (Date: July 4, 1876, Patent No: 179585) Steam Dome for Locomotives (Date: June 16, 1885, Patent No: 320354) Lubricator Attachment (Date: April 19, 1887, Patent No: 361435) Lubricator for Safety Valves (Date: May 24, 1887, Patent No: 363529) Drop Cup (Date: September 29, 1891, Patent No: 460215) Additional information: Elijah McCoy was born in 1844 in Ontario, Canada. His parents had been runaway slaves who weresuccessfully relocated to Canada by the Underground Railroad. Although his parents were very poor, they managed to save enough money to send McCoy to a boarding school in Edinburgh, Scotland to study mechanical engineering when he was 15. On his return to the United States, McCoy had a hard time finding a job because of his race. He eventually took a menial job as a railroad fireman, oiling the working parts of the trains. He found the work slow and boring and so developed a number of devices to allow automatic lubrication. His success may have been the origin of the phrase real McCoy to describe an instrument that is flawless in quality and performance.145. McCree, D. Selected Invention(s): Portable Fire Escape (Date: November 11, 1899, Patent No: 440322)146. McLarkin, James Selected Invention(s): Systems and methods for dispersing and clustering a plurality of robotic devices (Date: November 30, 2010, Patent No: 8290619) Systems and methods for dispersing and clustering a plurality of robotic devices (Date: November 30, 2010, Patent No: 7844364) System and methods for adaptive control of robotic devices (Date: August 7, 2007, Patent No: 7254464) Holder for Driving Reins (Date: November 28, 1899, Patent No: 637811)148. Miles, A. Selected Invention(s): Elevator (Date: October 11, 1887, Patent No: 371207)149. Mitchell, C. L. Selected Invention(s): Device for Aid in Vocal Culture (Date: January 1, 1884, Patent No: 291071)150. Mitchell, J. M. Selected Invention(s): Cheek Supporter for Electric Lamps (Date: March 21, 1882, Patent No: 255212)220. Turner, M. Selected Invention(s): The Fruit Press (Date: April 25, 1916, Patent No: 1180959)221. Walker, P. Selected Invention(s): Machine for Cleaning Seed Cotton (Date: February 16, 1897, Patent No: 577153) Bail Holder (Date: March 8, 1899, Patent No: 600241)222. Warner, J. W. Selected Invention(s): Shoemakers Cabinet or Bench (Date: February 3, 1880, Patent No: 224253)223. Washington, W. Selected Invention(s): Corn Husking Machine (Date: August 14, 1883, Patent No: 1883137)224. Watkins, Isaac Selected Invention(s): Scrubbing Machine (Date: October 7, 1890, Patent No: 437849)225. Watts, J. R. Selected Invention(s): Bracket for Miners Lamp (Date: March 7, 1893, Patent No: 493137)226. West, E. H. Selected Invention(s): Weather Shield (Date: September 5, 1899, Patent No: 632385)227. West, J. W. Selected Invention(s): Wagon (Date: October 18, 1870, Patent No: 108419)228. White, D. L. Selected Invention(s): Extension Steps for Cars (Date: January 12, 1897, Patent No: 574696)229. White, J. T. Selected Invention(s): Lemon Squeezer (Date: December 8, 1896, Patent No: 572849)230. Williams, C. Selected Invention(s): Canopy Frame (Date: February 2, 1892, Patent No: 468280)231. Williams, J. P. Selected Invention(s): Pillow Sham Holder (Date: October 10, 1899, Patent No: 634784)232. Winn, F. Selected Invention(s): Direct Acting Steam Engine (Date: October 4, 1888, Patent No: 394047)233. Winters, J. R. Selected Invention(s): Fire Escape Ladder (Date: May 7, 1878, Patent No: 203517) Fire Escape Ladder (Date: April 8, 1879, Patent No: 214224) Additional information: Joseph Winters was a Black American abolitionist and inventor. He is best known for his patent for a wagon-mounted fire escape ladder. He was also an active member of the Underground Railroad Movement in the United States. Joseph developed his ladders whilst noting the trouble firemen had unloaded and raised their ladders from wagons. Joseph died in 1916 at the age of 100.234. Wood, F. J. Selected Invention(s): Potato Digger (Date: April 23, 1895, Patent No: 537952)235. Woods, G. T. Selected Invention(s): Steam Boiler Furnace (Date: June 3, 1894, Patent No: 299894) Apparatus for Transmission of Messages by Electricity (Date: July 4, 1885, Patent No: 315368) Relay Instrument (Date: June 7, 1887, Patent No: 364619) Polarized Relay (Date: August 13, 1887, Patent No: 366192) Electro-Mechanical Brake (Date: August 16, 1887, Patent No: 368265) Telephone System and Apparatus (Date: October 11, 1887, Patent No: 371241) Electro-Magnetic Brake Apparatus (Date: October 18, 1887, Patent No: 373655) Railway Telegraphy (Date: November 15, 1887, Patent No: 373833) Induction Telegraph System (Date: November 9, 1887, Patent No: 373915) Overhead Conducting System for Electric Railway (Date: May 29, 1888, Patent No: 383844) Electro-Motive Railway System (Date: June 26, 1888, Patent No: 385034) Tunnel Construction for Electric Railway (Date: February 17, 1888, Patent No: 386282) Galvanic Battery (Date: August 14, 1888, Patent No: 387839) Railway Telegraphy (Date: August 28, 1888, Patent No: 388803) Automatic Safety Cut-Out for Electric Circuits (Date: January 1, 1889, Patent No: 395533) Electric Railway System (Date: November 10, 1891, Patent No: 463020) Electric Railway Conduit (Date: November 21, 1893, Patent No: 509065) System of Electrical Transmission (Date: October 13, 1896, Patent No: 569443) Amusement Apparatus (Date: December 19, 1899, Patent No: 639692) Electric Railway (Date: January 29, 1901, Patent No: 667110) Electric Railway System (Date: July 9, 1901, Patent No: 678086) Regulating and Controlling Electrical Translating Devices (Date: September 3, 1901, Patent No: 681768) Electric Railway (Date: November 19, 1901, Patent No: 687098) Automatic Air Brake (Date: June 10, 1902, Patent No: 701981) Electric Railway System (Date: January 13, 1903, Patent No: 718183) Electric Railway (Date: May 26, 1903, Patent No: 729484) Additional information: Granville Woods was a very prolific inventor who came to be known as the Black Edison. He made key contributions to the development of the telephone, streetcar, and more. Woods received little schooling as a young man but later spent some time working on railways and took courses in engineering and electricity. He eventually set up his own company to develop and manufacture electrical apparatus. The patent for his improved telephone transmitter was bought by Alexander Graham Bell. One of his most important inventions was a grooved metal wheel that allowed streetcars to collect electric power from overhead wires. However, his most important invention was the induction telegraph, which allowed communication by voice over telegraph wires. In 1904, Woods invented the power pick-up system which the basis of the third rail used by electric-powered transit systems. At the time of his death, on January 30, 1910, Wood had received nearly 60 patents, and many of his inventions are still in use today.236. Wormley, J. Selected Invention(s): Life-Saving Apparatus (Date: May 24, 1881, Patent No: 242091)1Alphaabetic order list of Black InventorsAbrams, W. B.Alcorn, GeorgeEdward J. Allen, C. W.Allen, J. B.Ashbourne, A. P.Baillif, C. O.Ballow, W. J.Banneker, BenjaminBarnes, G. A. E.Bashen, JanetBath, PatriciaBeard, A. J.Becket, G. E.Bell, Benjamin, L. W.Benjamin, M. E.Binga, M. W.Blackburn, A. B.Blair, HenryBlue, L. Booker, L. F.Boone, SarahBowman, H. A.Boykin, OtisBradberry, HenriettaBradley, BenjaminBrooks, C. B. Brooks, Hallstead, and PageBrown, HenryBrown, L. F. Brown, Marie Van Brittan-Burr, J. A. Burrige & MarshmanBurwell, W. Butler, R. A. Butts, J. W. Byrd, T. J. Campbell, W. S. Carr, B. F. Carrington, T. A. Carruthers, George R. Carter, W. C. Carter, GeorgeWashingtonCartwright, J. M. Cherry, M. A. Church, T. S. Clare, O. B. Coates, R. Coak, G. Coolidge, J. S. Cooper, A. R. Cooper, J. Cornwell, P. W. Cosgrove, W. F. Cotton, Donald J. Cralle, A. L. Creamer, H. Crosthwait, DavidDarricks, J. T. 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