
Appendix I

Although knowledge economies are built on the production of knowledge through innovative ideas for sustainable development, little is known in the Black diaspora of the African American and Caribbean innovations that have contributed to global advancement. Without knowledge sharing, there is little incentive, in today's world, for knowledge economies to thrive. Below is a brief glimpse into inventions by Africans in the diaspora that may have gone unnoticed:

Overview of Famous Inventions and Their Inventors

Breedlove, Sarah, better known as Madam C. J. Walker (1867–1919): Created her own hair care system in the 1900s. She marketed the product via direct sales and donated much of her \$600,000 wealth to the YMCA and NAACP.

Carver, George Washington (1864–1943): As an agricultural scientist and inventor, Carver promoted alternative crops to cotton and methods of preventing soil depletion.

Crum, George (1824–1914): Restaurateur known for serving thinly sliced fried potatoes, which led to the popularization of what are now known as potato chips in the 1860s.

Downing, Philip (1857–1934): Best known for two significant inventions: (1) the protective mailbox to keep mail safe from inclement weather and indoor safety, and (2) street railway switches.

Drew, Dr. Charles (1904–1950): A surgeon and medical researcher, Dr. Drew improved blood storage techniques and separated red cells from plasma to preserve blood for long periods of time.

Goode, Sarah (1855–1905): Invented the folding cabinet bed to fit in small homes in 1885. It is now known in modern-day as the Murphy bed.

Latimer, Lewis (1848–1928): Patented carbon filament for a light bulb in 1868 and assisted Thomas Edison in planning a light bulb model.

Lawson, Jerry (1940–2011): An African American electronics engineer, Lawson forever changed the video game industry by designing the Fairchild channel video game console and leading the team that pioneered the commercial video game cartridge. He has been dubbed the “father of the videogame cartridge.”

Matzelliger, Jan (1852–1889): Born in Dutch Guiana (now named Suriname), he invented the automatic shoe lasting machine, mechanizing the process of joining a shoe sole to its upper. The invention revolutionized the shoe industry, producing 150–700 pairs of shoes per day in 1873, thus making shoe purchase more affordable.

McCoy, Elijah (1844–1929): Invented an automatic oil cup, in 1872, to lubricate the train’s axel while it was in motion, so that fewer stops would be made en route. This improved safety and ensured timely arrival at destinations.

Morgan, Elijah (1877–1963): Developed the safety hood for firemen to survive smoke and inhale oxygen in 1916. He later created an early prototype of a three-position traffic signal.

Woods, Granville (1856–1910): Invented the multiplex telegraph, which allowed dispatchers and engineers to communicate in 1887. Among the fifty patents he held in the United States were the steam boiler furnace for trains and the development of streetcars.

Appendix II.

List of Known Black Inventors and Inventions.

Source: UCSD Library

INVENTION	INVENTOR
Airplane Propelling	James S. Adams
Air Conditioning Unit	Frederick M. Jones
Air Ship (Blimp)	J. F. Pickering
Alphabet	Africans
Arm for Record Player	Joseph Dickinson
Automatic Air Brake	Granville T. Woods
Automatic Fishing Reel	George Cook
Automatic Gear Shift	R. B. Spikes
Baby Buggy	W. H. Richardson
Bicycle Frame	Isaac R. Johnson
Biscuit Cutter	A. P. Ashbourne
Blood Plasma	Dr. Charles Drew
Car Coupler	Andrew J. Beard
Cellular Phone	Henry Sampson
Chess	Africans
Civilization	Africans
Clothes Dresser	John H. Jordan
Clothes Drier	G. T. Sampson
Coin Changer	James A. Bauer
Corn Planter	Henry Blair
Cotton Planter	Henry Blair
Curtain Rod	S. R. Scottron
Defroster	Frederick M. Jones
Disposal Syringe	Phil Brooks
Doorknob	O. Dorsey
Doorstop	O. Dorsey
Dustpan	I. P. Ray
Egg Beater	W. Johnson

Electric Cut-Off Switch	Granville T. Woods
Electric Lamp	Latimer and Nichols
Electric Mechanical Brake	Granville T. Woods
Electric Railway System	Granville T. Woods
Elevator	Alexander Miles
Envelope Seal	F. W. Leslie
Eye Protector	P. Johnson
Far-Ultraviolet Radian Detector	George Carruthers
Fire Escape Ladder	J. B. Winters
Fire Extinguisher	Tom J. Marshal
Folding Bed	L. C. Bailey
Folding Chair	Purdy/Sadgwar
Fountain Pen	W. B. Purvis
Furniture Caster	David A. Fisher
Galvanic Battery	Granville T. Woods
Gas Burner	B. F. Jackson
Gas Mask	Garrett Morgan
Golf Tee	George F. Grant
Guided Missile	Otis Boykins
Guitar	Robert Flemming, Jr.
Hairbrush	Lyda Newman
Hand Stamp	W. B. Purvis
Heating Furnace	Alice H. Parker
Helicopter	Paul E. Williams
Home Security System	Marie Brown
Horse Bridle Bit	L. F. Brown
Horse Riding Saddle	Wm. D. Davis
Horseshoe	Oscar E. Brown
Hydraulic Shock Absorber	Ralph Sanderson
Ice Cream	Augustus Jackson
Ice Cream Mold	A.L. Cralle
Image Converter	George Carruthers
Insect Destroyer Gun	A. C. Richardson
Internal Combustion Engine	Frederick M. Jones
Ironing Board	Sarah Boone
Kitchen Table	H. A. Jackson
Lantern	Michael Harney
Laser Fuels	Lester Lee
Lawn Mower	John A. Burr

Lawn Sprinkler	J. W. Smith
Letter Box	G. E. Becket
Lock	W. A. Martin
Lotions and Soaps	George Washington Carver
Lubricators	Elijah McCoy
Medicine	Africans
Mop	T. W. Stewart
Motor	J. Gregory
Multi-Stage Rocket	Adolph Shamms
Paints and Stains	George Washington Carver
Paper	Africans
Peanut Butter	George Washington Carver
Pencil Sharpener	John L. Love
Photo Embossing Machine	Clantonia J. Dorticus
Photo Print Wash	Clantonia J. Dorticus
Player Piano	Joseph Dickinson
Postal Letter Box	Phillip B. Downing
Potato Chips	George Crum
Pressing Comb	Walter Sammons
Pressure Cooker	Maurice W. Lee
Printing Press	W. A. Lavalette
Programmable Remote Controllers	Joseph N. Jackson
Refrigeration Controls	Frederick M. Jones
Refrigerator	J. Standard
Relay Instrument	Granville T. Woods
Rocket Catapult	Hugh Macdonald
Roller Coaster	Granville T. Woods
Rotary Engine	Andrew J. Beard
Sani-Phone	Jerry Johnson
Shoe	W. A. Deitz
Shoe Lasting Machine	Jan Matzelliger
Space Shuttle Retrieval Arm	W. M. Harwell
Stainless Steel Pads	Alfred Benjamin
Stairclimbing Wheelchair	Rufus J. Weaver
Starter Generator	Frederick M. Jones
Street Sweeper	C. B. Brooks
Sugar Refinement	N. Rillieux
Super Soaker	Lonnie Johnson
Telephone System	Granville T. Woods

Telephone Transmitter	Granville T. Woods
Thermo Hair Curlers	Solomon Harper
Toilet	T. Elkins
Torpedo Discharger	H. Bradberry
Traffic Signal	Garrett Morgan
Train Alarm	R. A. Butler
Two-Cycle Gas Engine	Frederick M. Jones
Typewriter	Burridge Marshman
Urinalysis Machine	Dewey Sanderson
Video Commander	Joseph N. Jackson
Window Cleaner	A. L. Lewis
Wrench	John A. Johnson