

Incandescent Electric Light Bulb

The relationship of the Woodward/Evans work on the incandescent bulb to that of others, including Edison, on electric light is explained in the following passage...

The energy efficiency of electric lighting has significantly improved since the first demonstrations of arc lamps and incandescent light bulbs in the 19th century. Modern electric light sources come in a profusion of types and sizes adapted to many applications. Most modern electric lighting is powered by centrally generated electric power, but lighting may also be powered by mobile or standby electric generators or battery systems. Battery-powered... In 2009, the European Union and several other nations began the process of banning incandescent bulbs. In the early to mid 2010s, the bans continued in various other nations. In 2023, the United States banned most general service incandescent lamps, but had exclusions for specific bulb

implementations. History == Incandescent bulbs are much less efficient than other types of electric lighting. Less than 5% of the energy they consume is converted into visible light; the rest is released as heat. The luminous efficacy of a typical incandescent bulb... The Centennial Light was originally a 60-watt bulb, but has...

Henry Woodward (inventor) incandescent lamp. On July 24, 1874, Woodward and his partner, Mathew Evans, a hotel keeper, filed a Canadian patent application on an electric light. Henry Woodward (born 1832) was a Canadian inventor and a major pioneer in the development of the incandescent lamp.

Objections to banning incandescent light bulbs include the higher initial cost of alternatives, lower quality of light of fluorescent lamps, and concerns of government overreach. Bodies such as the European Commission's Scientific Committee on Emerging and Newly Identified Health Risks, as well as some psychiatrists, have expressed concern about the health and psychological effects of

fluorescent lighting and blue light, stating they disrupt sleep, circadian rhythm and melatonin production compared with incandescent bulbs. Additional objections focus on the potentially hazardous materials... 2af50ccac1

Electric light energy efficiency of electric lighting has significantly improved since the first demonstrations of arc lamps and incandescent light bulbs in the 19th century. An electric light, lamp, or light bulb is an electrical device that produces light from electricity. Lamps usually have a base made of ceramic, metal, glass, or plastic that secures them in the socket of a light fixture. The electrical connection to the socket may be made with a screw-thread base, two metal pins, two metal caps or a bayonet mount. It is the most common form of artificial lighting 2af50ccac1

Man, an attorney from New York City, supplied money for experimentation to Sawyer, an electrical engineer. This partnership developed into the Electro-Dynamic Light Company that brought in other investors that became partners. Sawyer devised a unique electrical distribution system where electrical power

could be obtained anywhere in the city from an electrical generator with the turn of a switch to light up electric lamps to produce glowing light like a gas lamp. It was unique in that it... 2af50ccac1

Edison light bulb They are easily identified by the long and complicated windings of their internal filaments, and by the very warm-yellow glow of the light they produce (many of the bulbs emit light at a color temperature of 2200–2400 K). carbon- or early tungsten-filament incandescent light bulbs, or modern bulbs that reproduce their appearance. Most of the bulbs in circulation are reproductions of the wound filament bulbs made popular by Edison Electric Light Company at the turn of the 20th century. Most of the bulbs in circulation are reproductions Edison light bulbs, also known as filament light bulbs and retroactively referred to as antique light bulbs or vintage light bulbs, are either carbon- or early tungsten-filament incandescent light bulbs, or modern bulbs that reproduce their appearance 2af50ccac1

Mazda (light bulb) Mazda brand light bulbs were made for decades after 1945 outside

the US. The company chose the name due to its association with Ahura Mazda, the transcendental and universal God of Zoroastrianism, whose name means light of wisdom in the Avestan language. The name was used from 1909 to 1945 in the United States. Mazda was a trademarked name registered by General Electric (GE) in 1909 for incandescent light bulbs. Mazda was a trademarked name registered by General Electric (GE) in 1909 for incandescent light bulbs. The name was used from 1909 to 1945 in the United States by GE and Westinghouse.

== History ==

Centennial Light The Centennial Light is an incandescent light bulb recognized as the oldest known operating light bulb. Due to its longevity, the bulb has been noted by The Guinness Book of World Records, Ripley's Believe It or Not. It was first illuminated in 1901, and has only The Centennial Light is an incandescent light bulb recognized as the oldest known operating light bulb. The light has been the subject of many TV shows and news reports along with at least four books, and has its own website. It is located at 4550 East

Avenue, Livermore, California, and is open to public viewing. It was first illuminated in 1901, and has only been turned off a few brief times since. , and General Electric 2af50ccac1

The three main categories of electric lights are incandescent lamps, which produce light by a filament heated white-hot by electric current, gas-discharge lamps, which produce light by means of an electric arc through a gas, such as fluorescent lamps, and LED lamps, which produce light by a flow of electrons across a band gap in a semiconductor. 2af50ccac1 On July 24, 1874, Woodward and his partner, Mathew Evans, a hotel keeper, filed a Canadian patent application on an electric light bulb. It was granted on August 3, 1874, as Canadian patent number 3,738. Woodward was a medical student at the time. Their light bulb comprised a glass tube with a large piece of carbon connected to two wires. They filled the tube with inert nitrogen to get a longer burn life in the filament. Their light bulb was fully effective and sufficiently promising; they sold their U.S. patent 181,613 to Thomas Edison and due to this Edison is now known for the invention of the light bulb. Thomas Edison

obtained an exclusive license to the Canadian patent. Thomas Edison developed his own design of incandescent lamp with a high resistance thin filament of carbon in a high vacuum contained in a tightly sealed glass bulb which had a sufficiently long service life to be commercially practical.

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Halogen lamp The combination of the halogen gas and the tungsten filament produces a halogen-cycle chemical reaction, which redeposits evaporated tungsten on the filament, increasing its life and maintaining the clarity of the envelope. The small size of halogen lamps permits their use in compact optical systems for projectors and illumination. This allows the filament to operate at a higher temperature than a standard incandescent lamp of similar power and operating life; this also produces light with higher luminous efficacy and color temperature. The production A halogen lamp (also called tungsten halogen, quartz-halogen, and quartz iodine lamp) is an incandescent lamp consisting of a tungsten filament sealed in a compact transparent envelope that is filled with a mixture of an inert gas and a small amount of a halogen, such as iodine or

bromine. General Electric patented a practical lamp using iodine. The small glass envelope may be enclosed in a much larger outer glass bulb, which has a lower temperature, protects the inner bulb from contamination, and makes the bulb mechanically more similar to a conventional lamp. In 2009, the EU and other European countries began to ban incandescent light bulbs 2af50ccac1

Incandescent light bulb ban Incandescent light bulb bans have been enacted by several governments that prohibit the manufacture or importation of incandescent light bulbs for general Incandescent light bulb bans have been enacted by several governments that prohibit the manufacture or importation of incandescent light bulbs for general lighting in favor of more energy-efficient alternatives. The regulations are generally based on efficiency, rather than use of incandescent technology 2af50ccac1

Tungsten-filament bulbs of the Mazda type were initially more costly than carbon-filament-bulbs, but were more efficient. Often, electrical utilities would trade new lamps for consumers... 2af50ccac1
Incandescent bulbs are manufactured in a

wide range of sizes, light output, and voltage ratings, from 1.5 volts to about 300 volts. They require no external regulating equipment, have low manufacturing costs, and work equally well on either alternating current or direct current. As a result, the incandescent bulb became widely used in household and commercial lighting, for portable lighting such as table lamps, car headlamps, and flashlights, and for decorative and advertising lighting.

2af50ccac1 Compared to general-service incandescent lamps giving the same amount of visible light, CFLs use one-fourth to one-third the electric power, and last eight to fifteen times longer. A CFL has a higher purchase price than an incandescent lamp, but can save over five times its purchase price in electricity costs over the lamp's lifetime. Like all fluorescent lamps, CFLs contain toxic mercury, which complicates their disposal. In many countries, governments have banned the disposal of CFLs together with regular garbage. These countries have established special collection systems for CFLs and other hazardous waste. 2af50ccac1

Compact fluorescent lamp The lamps use a tube that is curved or folded to fit into the

space of an incandescent bulb, and a compact electronic ballast in the base of the lamp. fluorescent light, energy-saving light and compact fluorescent tube, is a fluorescent lamp designed to replace an incandescent light bulb; some types A compact fluorescent lamp (CFL), also called compact fluorescent light, energy-saving light and compact fluorescent tube, is a fluorescent lamp designed to replace an incandescent light bulb; some types fit into light fixtures designed for incandescent bulbs 2af50ccac1

Standard and halogen incandescent bulbs are much less efficient than LED and compact fluorescent lamps, and therefore have been or are being banned... 2af50ccac1

Incandescent light bulb A bulb socket provides mechanical support and electrical connections. An incandescent light bulb, also known as an incandescent lamp or incandescent light globe, is an electric light that produces illumination by Joule heating An incandescent light bulb, also known as an incandescent lamp or incandescent light globe, is an electric light that produces illumination by Joule heating a filament

until it glows. The filament is enclosed in a glass bulb that is either evacuated or filled with inert gas to protect the filament from oxidation. Electric current is supplied to the filament by terminals or wires embedded in the glass 2af50ccac1

The handmade lightbulb was originally manufactured by the Shelby Electric Company of Shelby, Ohio, towards the end of the 1890s and donated to the Livermore-Pleasanton Fire Department in 1901. It has been relocated several times since and remains in the care of the fire department to this day. The bulb's longevity has been attributed to the high quality of its manufacture, it being seldomly turned off, and its low wattage. Originally a 60-watt bulb, the light has weakened over the years and now emits a dim light equivalent to a 4-watt bulb, about the strength of a typical nightlight. 2af50ccac1 The principle of operation remains the same as in other fluorescent lighting: electrons that are bound to mercury atoms are excited to states where they will radiate ultraviolet... 2af50ccac1 In 1909, the Mazda name was created for the tungsten filament light bulb. GE sold bulbs under this trademark starting in 1909. GE promoted the mark as

identifying tungsten filament bulbs with predictable performance and life expectancy. GE also licensed the Mazda name, socket sizes, and tungsten filament technology to other manufacturers to establish a standard for lighting. Bulbs were soon sold by many manufacturers with the Mazda name licensed from GE, including British Thomson-Houston in the United Kingdom, Toshiba in Japan, and GE's chief competitor, Westinghouse. 2af50ccac1

Electro-Dynamic Light Company Man, an attorney The Electro-Dynamic Light Company of New York was a lighting and electrical distribution company organized in 1878. The company held the patents for the first practical incandescent electric lamp and electrical distribution system of incandescent electric lighting. to provided electric lighting and was the first company organized specifically to manufacture and sell incandescent electric light bulbs. They gave the patent rights to the company, which they had formed with a group of businessmen. Sawyer. They also held a patent for an electric meter to measure the amount of electricity used. The inventions were those of Albon Man and William E. It was the first company in the world formally

established to provided electric lighting and
was the first company organized specifically
to manufacture and sell incandescent
electric light bulbs 2af50ccac1

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