



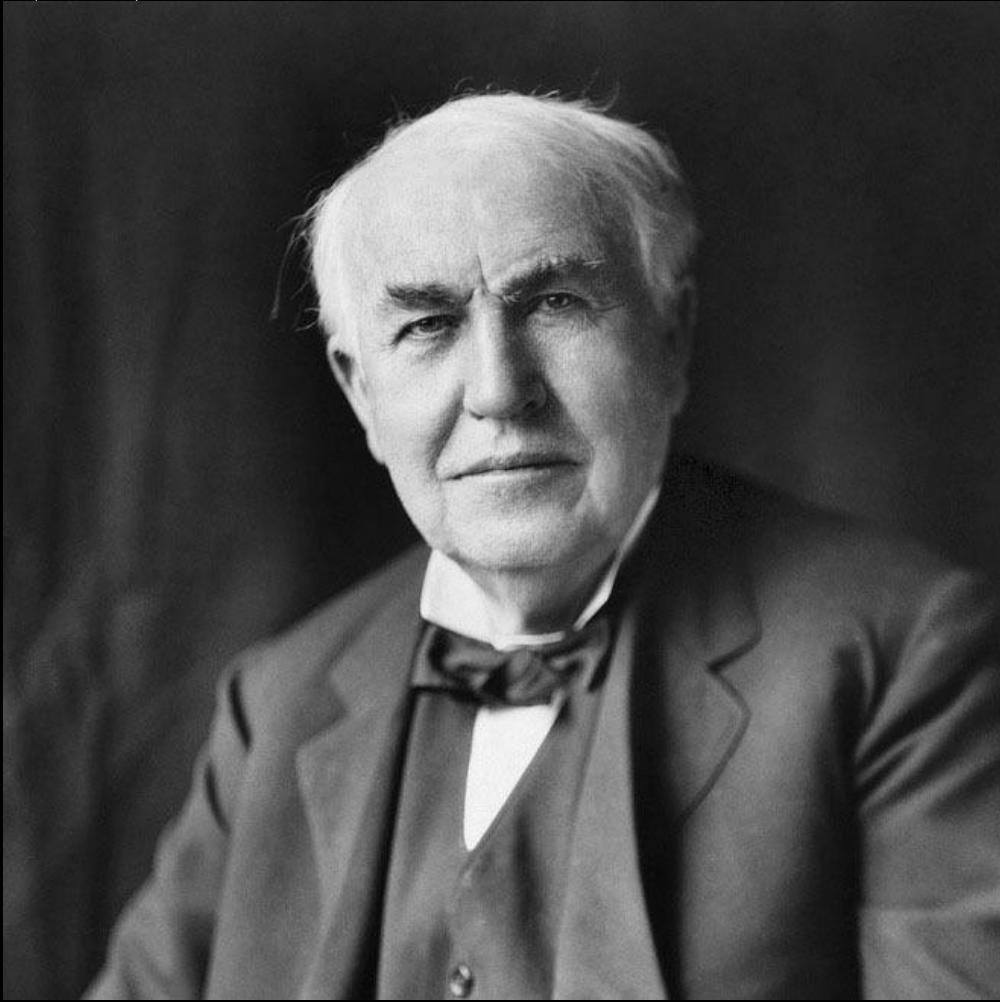
Innovation

incandescent lamp





Inventor



In 1879, American inventor Thomas Edison patented a carbon fiber lamp and created a lamp with a lifetime of 40 hours. Simultaneously with the inventions to improve the design of lamps, Edison made a great contribution to the development of the principles of the electric lighting system and centralized power supply, which by itself contributed to the widespread introduction of electric lamps in everyday life and in production.





Problem

Lighting the streets with gas or candles was extremely unprofitable and also dangerous to health.

How it works?

- The incandescent lamp uses the effect of heating the incandescent body when an electric current flows through it . The temperature of the incandescent body increases after the electrical circuit is closed. All bodies whose temperature exceeds the temperature of absolute zero emit electromagnetic thermal radiation in accordance with Planck's law. To obtain visible radiation, it is necessary that the temperature of the emitting body exceeds $570\text{ }^{\circ}\text{C}$





Advantages

- Low price
- Small size
- The absence of toxic components
- A pleasant and familiar spectrum in everyday life
- Well-established in mass production

