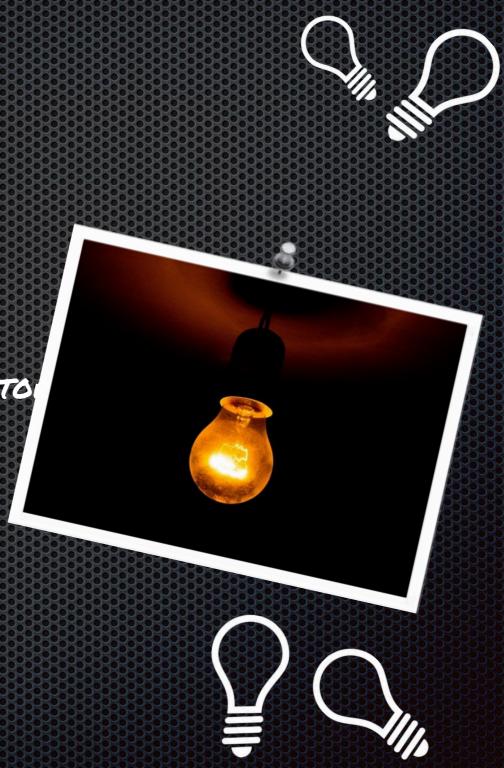


TEACHER PITKOVA SVETLANA NIKOLAEVNA

THE PRESENTATION WAS MADE BY PAVLOVA VICTOR FORM 10 SCHOOL Nº 33













5. HOW DID THE INVENTION OF LIGHT BULBS CHANGE PEOPLE'S LIVES TODAY?

6. RESOURCES

ELECTRIC LIGHT BULB







TUNGSTEN

SEALED 8.42

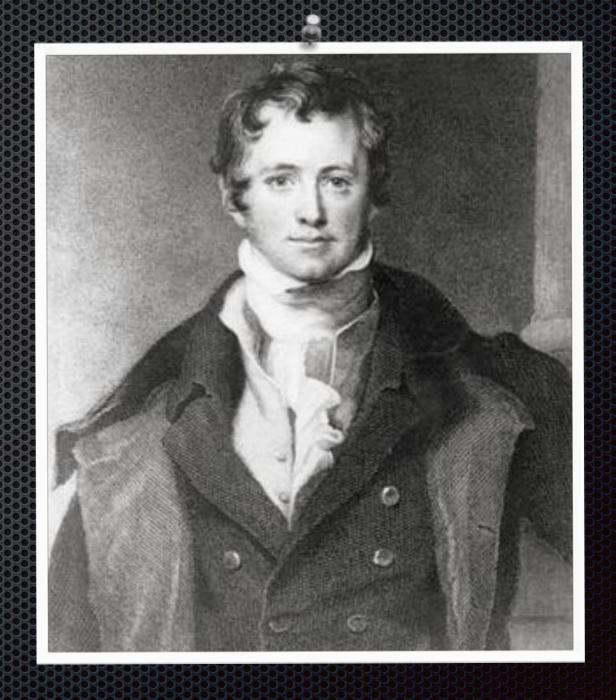
ELECTRICAL CONTACTS

BULB DESIGN BASICS

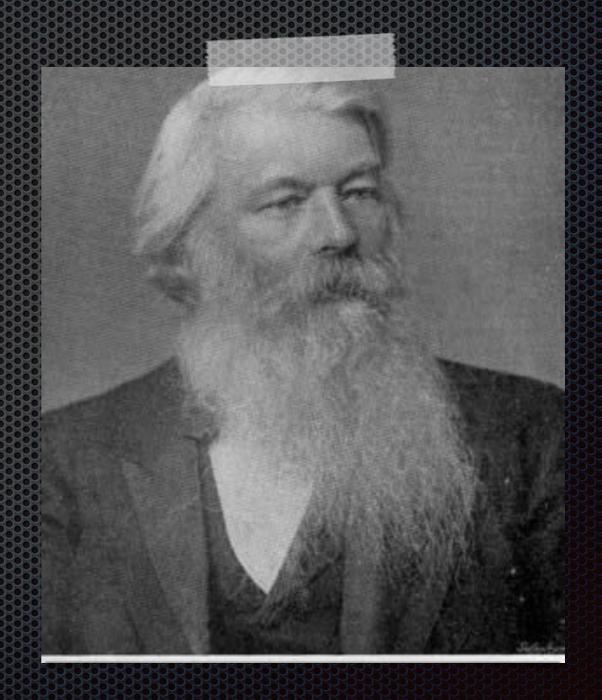


LOOK!

THE FIRST ELECTRIC LIGHT WAS MADE IN 1800 BY HUMPHRY DAVY, AN ENGLISH SCIENTIST. HE EXPERIMENTED WITH ELECTRICITY AND INVENTED AN ELECTRIC BATTERY. WHEN HE CONNECTED WIRES TO HIS BATTERY AND A PIECE OF CARBON, THE CARBON GLOWED, PRODUCING LIGHT. THIS IS CALLED AN ELECTRIC ARC.

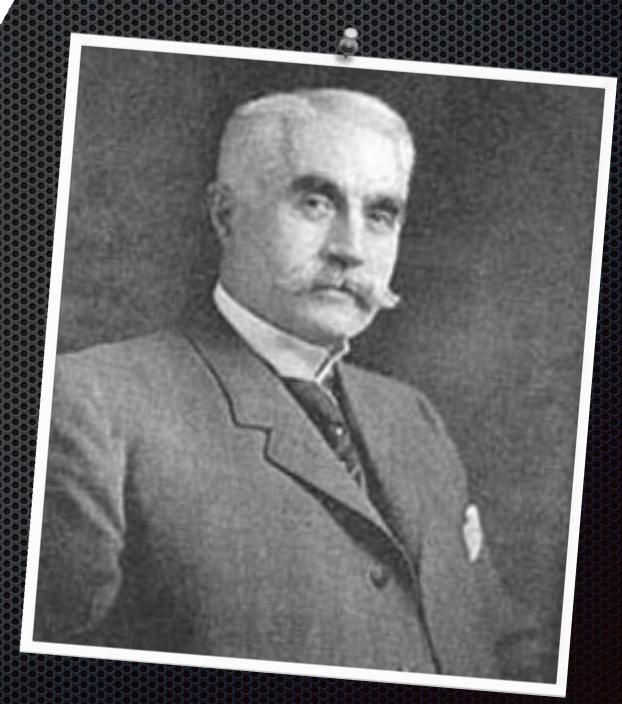


MUCH LATER IN 1860, THE ENGLISH PHYSICIST SIR JOSEPH WILSON SWAN WAS DETERMINED TO DEVISE A PRACTICAL, LONG-LASTING ELECTRIC LIGHT. HE FOUND THAT A CARBON PAPER FILAMENT WORKED WELL, BUT BURNED UP QUICKLY. IN 1878, HE DEMONSTRATED HIS NEW ELECTRIC LAMPS IN NEWCASTLE, ENGLAND.

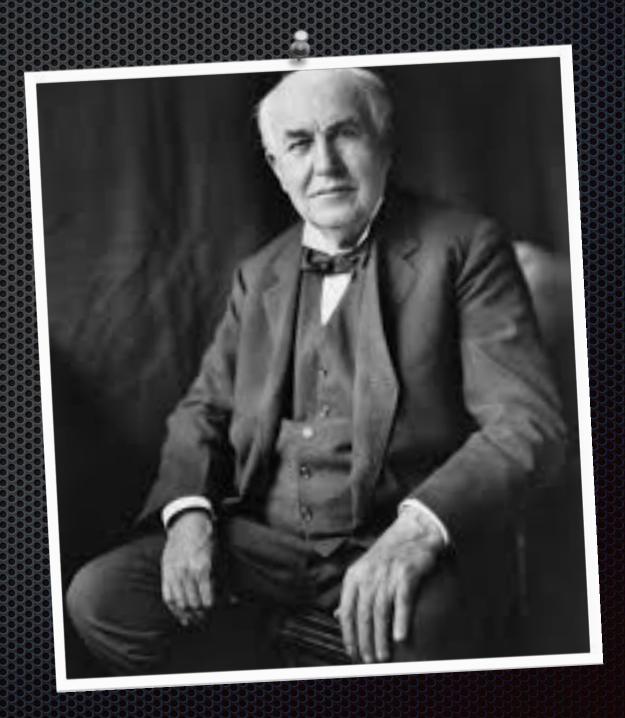


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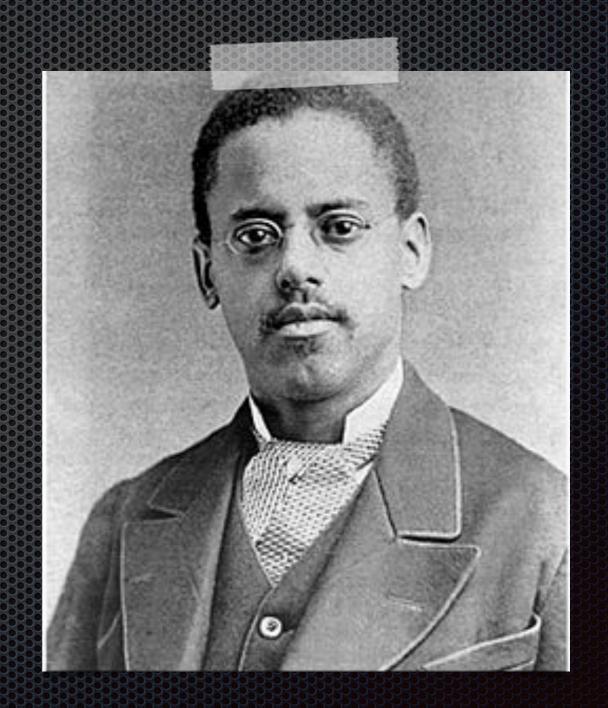
IN 1877, THE AMERICAN CHARLES FRANCIS BRUSH MANUFACTURED SOME CARBON ARCS TO LIGHT A PUBLIC SQUARE IN CLEVELAND, OHIO, USA. THESE ARCS WERE USED ON A FEW STREETS, IN A FEW LARGE OFFICE BUILDINGS, AND EVEN SOME STORES. ELECTRIC LIGHTS WERE ONLY USED BY A FEW PEOPLE.



THE INVENTOR THOMAS ALVA EDISON (IN THE USA) EXPERIMENTED WITH THOUSANDS OF DIFFERENT FILAMENTS TO FIND JUST THE RIGHT MATERIALS TO GLOW WELL AND BE LONG-LASTING. IN 1879, EDISON DISCOVERED THAT A CARBON FILAMENT IN AN OXYGEN-FREE BULB GLOWED BUT DID NOT BURN UP FOR 40 HOURS. EDISON EVENTUALLY PRODUCED A BULB THAT COULD GLOW FOR OVER 1500 HOURS.

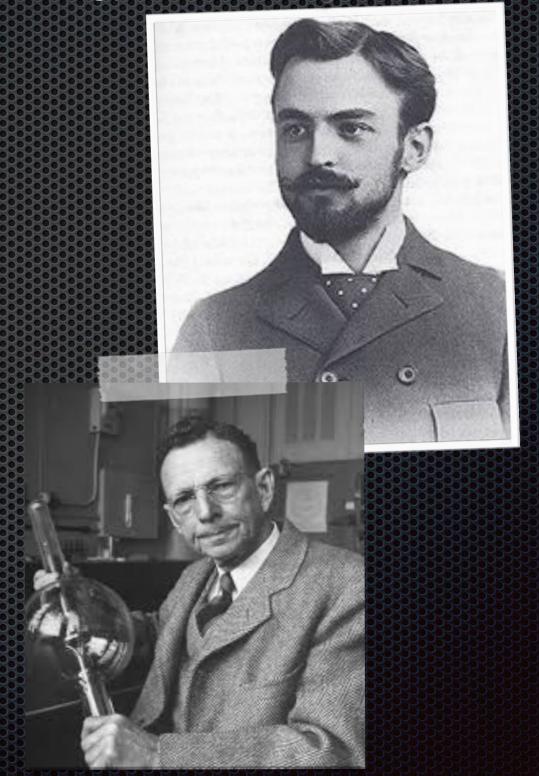


LEWIS HOWARD LATIMER IMPROVED THE BULB BY INVENTING A CARBON FILAMENT (PATENTED IN 1881); LATIMER WAS A MEMBER OF EDISON'S RESEARCH TEAM, WHICH WAS CALLED "EDISON'S PIONEERS." IN 1882, LATIMER DEVELOPED AND PATENTED A METHOD OF MANUFACTURING HIS CARBON FILAMENTS.



IN 1903, WILLIS R. WHITNEY
INVENTED A TREATMENT FOR THE
FILAMENT SO THAT IT WOULDN'T
DARKEN THE INSIDE OF THE
BULB AS IT GLOWED.

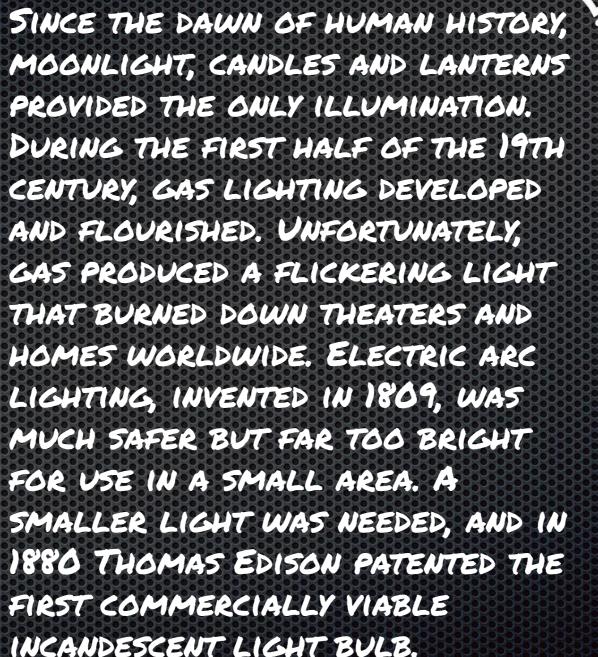
IN 1910, WILLIAM DAVID
COOLIDGE INVENTED A
TUNGSTEN FILAMENT WHICH
LASTED EVEN LONGER THAN THE
OLDER FILAMENTS. THE
INCANDESCENT BULB
REVOLUTIONIZED THE WORLD.



WHY WAS THE INVENTION

















HOW DID THE INVENTION OF LIGHT BULBS CHANGE PEOPLE'S LIVES TODAY?

YOU CAN SEE WITHOUT A FIRE, OR BURNING CANDLES, OIL LAMPS AND LANTERNS, WHICH CAN BE DANGEROUS LEFT UNATTENDED. ALSO NO NEED TO WAIT FOR DAYLIGHT TO DO ALL THE WORK THAT WE WISH TO DO. WE CAN WORK INDOORS IN BAD WEATHER, EVEN ON SMALL DETAILED TASKS, AND HOMES CAN BE BUILT WITH SMALLER/FEWER WINDOWS TO CONSERVE ENERGY. WE CAN MAKE PLANS TO COMPLETE JOBS, AND THEY DON'T DEPEND ON DAYLIGHT HOURS, OR SUNNY WEATHER TO COMPLETE THEM, ESPECIALLY FINE DETAILED WORK THAT REQUIRES CLEAR SIGHT. PEOPLE CAN WORK ALL HOURS OF THE DAY AND NIGHT, KEEPING HOSPITAL, OR MEDICAL SERVICES, AND POLICE, OR SECURITY SERVICES AVAILABLE TO THOSE WHO NEED IT. ONE'S LIFE AND WORK IN GENERAL DON'T REVOLVE AROUND THE TIME OF DAY, AND WHAT THE WEATHER, OR SEASON MAY PROVIDE IN THE WAY OF ILLUMINATION.

In the top tiers of many professional sports, it is a requirement for stadiums to have floodlights to allow games to be scheduled outside daylight hours. Evening or night matches may suit spectators who have work or other commitment earlier in the day. The main motivation for this is television marketing, especially in sports such as Gridiron which rely on TV rights money to finance the sport. Some sports grounds which do not have permanent floodlights installed may make use of portable temporary ones instead.

RESOURCES

- картинки
- http://electrik.info/main/fakty/580-kto-na-samom-dele-iz
 obrel-elektricheskuyu-lampochku.html
- http://www.masterplusremont.spb.ru/blog/izobretenie-elektricheskoy-lampochki/
- . https://en.wikipedia.org/wiki/Electric light
- первая лампочка

THE END.