

Inventions. Their Role on the Way to Progress.



Introduction.

Nowadays it is impossible to imagine our life without technological inventions. We can not do without them and our lives depend on them a lot.

Some people suppose inventions to be the most important things on the way to progress, but others think that they make us unable to do a lot of useful and necessary actions that help humans to be healthy, sporty and smart. Where is the truth? Let's try to look at the problem and to find out the answer.

The inventions, that have changed the world.

In 1825 Georg and Robert Stephenson built the first steam train.

Nicephore Niepce from France pioneered photography in 1826.

In 1868 the first bicycles appeared.

In 1876 Alexander Graham Bell, an American engineer, invented telephone.

Karl Benz produced the world's first petrol – driven motor car in Germany in 1885.

In 1895 the Lumiere brothers patented their cinematography.

Wilbur and Orville Wright built the first airplane in 1903, USA.

In 1908 James M. Spangler from the USA built the first vacuum cleaner.

In 1908 US automobile manufacturer Henry Ford created the world's first car assembly line.

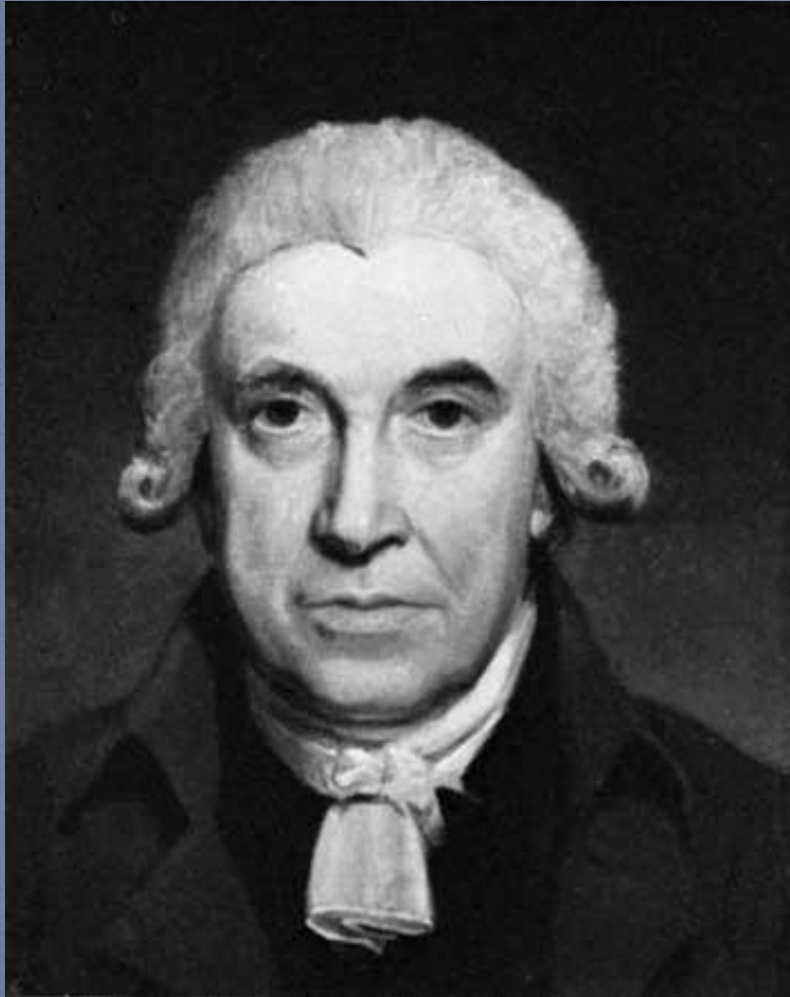
John Logie Baird from Scotland invented television in 1926.

In the 1930s the first washing machine came up.

Sergey Korolev from Russia designed the first artificial satellite in 1957.

In 1981 Bill Gates, USA, created Microsoft –DOS (Disk Operating System).

The History of Inventions.



James Watt and Steam Engine.

The steam engine was invented by Heron, an ancient Greek geometer and engineer from Alexandria. Heron Lived during the first century AD and is sometimes called Hero.

Heron made the steam engine as a toy, and called his device «aeolipile», which means «wind ball» in Greek. The aeolipile is the first known device to transform steam power into rotary motion. The Greeks never used this remarkable device for anything but a novelty. A steam engine designed for work wasn't built until 1698.

James Watt was the man, who later improved the steam engine. James Watt was a Scottish inventor and engineer. In 1765, Watt revolutionized the steam engine, redesigning it so that it was much efficient and four times as powerful as the old steam engines.

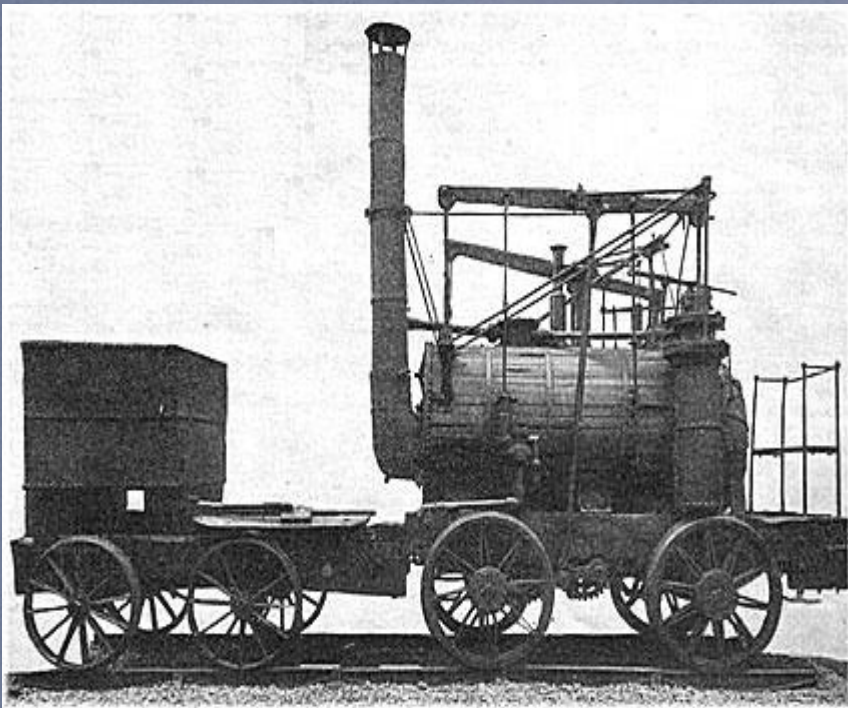
Watt's engines did not waste steam, and had a separate condenser. Watt partnered with the businessman and factory owner Matthew Boulton in 1772, helping to promote Watt's ideas commercially. Watt also invented a method for converting the up-and-down piston movement number of applications for the engine. Watt produced this rotary motion steam engine in 1781. It was used for many applications, including draining mines, powering looms in textile factories, powering bellows, paper mills. It helped power the Industrial Revolution.

Watt coined the term «horse power», which he used to his engines. He calculated how many horses it would take to do the work of each engine. One horse power equals 33,000 foot-pounds of work per minute. It is the power foot in one minute. Parliament granted Watt a patent on his steam engine in 1769, making Watt a very wealthy man. In 1882 (long after Watt's death), the British Association named the unit of electrical power the «watt». I think, it was a great invention, which opened a new era in the development of mankind.

Skotnikova K.

The History of the Invention of Steam Trains.

George and Robert Stephenson built the first steam train, the «Rocket», in 1829. It had a lot of problems and was very slow. By 1870, trains became more popular and easier to run. By 1895, people started using electric trains.

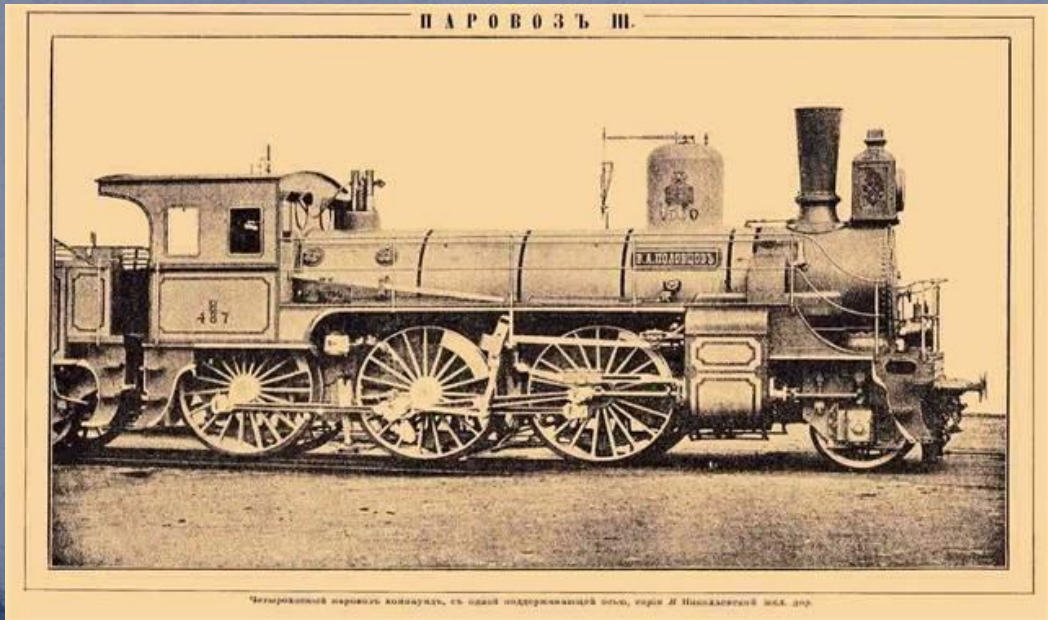


They were cleaner and quieter than steam trains. By 1920, most countries in Europe had railways. Today there are railways all over the world. They have greatly changed our lives and helped to save a lot of time for travellers.



The first constructors of steam trains in Russia were Yefim and Myron Cherepanovs, talented inventors from the Urals. They were surfs of the popular Demidovs family, who were the owners of a lot of

factories at the place. Yefim, the father, was interested in machine – building and his son Myron helped him to work at the invention of the first steam – engine machine (in1820) and later – steam train (in1833-1834).



Yefim studied in England in 1821 and was greatly impressed by the «Rocket», which he saw there. When he came back, he started constructing Russian steam train and gained success, which helped him not only revolutionize travelling, but to get freedom for his family.

Now Russia has the longest railway system in the world. Modern trains are fast and comfortable. People can find beds, restaurants, watch TV and listen to the radio there. No doubt, the invention of the train was a great step toward progress.

I think there are only advantages in the invention of trains, because to travel long distances in old days was tiring, uncomfortable and dangerous. Travelling by train nowadays is not the fastest, but convenient and not very expensive.

Gerasimenko M.



Automobiles.



The first automobile was designed by Nicholas Joseph Cugnot in France in 1769. It was made according to the order of the War Minister of France Etienne Francois, who wanted to get a practical transport for the needs of the Army. Cugnot and his colleague Brezin constructed the first steam engine automobile in the Arsenal in Paris.



It was primitive and very slow (its speed was only 4 km per hour), but it could help carry up to 5 tons of load. Later a passenger variant of the automobile was made by the inventors, but it was very insecure and in 1771 the production of it was stopped. However, it was the beginning of the history of the automobile.

Now it is not possible to live without automobiles. Cars take you where you want to go. You can travel freely and comfortably and it doesn't take you much time. Some people think there too many cars in our streets now and they pollute the atmosphere. I agree with it, but my opinion is that in the near future we will have new



type of fuel, which will be nature friendly and probably we will be able to solve the problems of traffic jams with the help of flying automobiles. Bogachev Andrey.



CONCLUSION:

A lot of inventions appeared in people's lives to make their existence more comfortable and easier. The names of inventors are still known and remembered by grateful descendants. The inventions help us to save much time for our hobbies and interests and to get much freedom from our housework. There is another point of view on the problem. A lot of people suppose that all the inventions make us lazy, passive and unhealthy, but if you are sensible, you will always have something interesting to do in your free time and if you care of your health, you will go to a sports club to have some exercises to keep fit.