
[Reporied Oficially for the Scientific American.] LIST OF PATENT CLAIMS Kssued from the United Sitates Patent Offce



















































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## nobert Fulton

A new biography of this eminent man-the first who built a really practical steamboat and established steam navigation-has just been given to the world by J. Franklin Reigart, of Lancaster, Pa. The author has devoted much labor and research in producing a complete history of Fulton and his inventions, and he appears to have done so in the spiritof one who loved his subject, and it does him great credit in every particular.
Fulton was born in Little Britain (now Fulton,) in Lancaster Co., Pa., in 1765. His father emigrated from the north of Ireland, and was a descendant of the Covenanters, who emigrated from Scotland to Ireland durivg the persecution. Robert received a common school education, and at an early age exhibited a fine taste for drawing and mechanism. At 17 years of age he became a professional artist in Philadelphia, but being consumptive, in a few years afterwards he was induced to take voyage to England for the benefit of his health. In London he was kindly received by BenjaKing George III
His remarkable mechanical genius soon made him known to Lord Stanhope and the Duke of Bridgewater-men of mechanica tastes-and he was soon distinguished by his great neatness in drafting, and ability as Civil Engineer. He was a dweller and wanderer in Europe for many years, gaining much experience in courts and camps, but his mind was all the while taken up with the great idea of steam navigation, and rendering his native land immortal by its first successfud application. This he accomplished successfully in 1807. His first boat, the Clermont, was built and launched in New York. James Watt, built the engines for it, according to Fulton's plan, and thus the genius of two great men were blended and combined, in this, the glori ous result of steam navigation.
Some have endeavored to detract from the justly earned fame of Fulton, by setting up claims against him of not being the original inventor of steam navigation. Mr. Reigar does not set up any such claim for him, but justly places his claims upon the proper basis of having rendered it successful by his improvements, after many others had failed to do so. This is enough to render his name famous forever, as the "Father of Steam Navigation. Much credit is due to Miller and Symington, and others, for what they had done before him,
but without detracting from their claims, Ful-
ton's name must rank above theirs in the scroll of great inventors.
The volume is beautifully illustrated with fine colored engravings of the various steamers which Fulton built, and with copies of his original drawings and paintings, and a portrait of himself. It is a valuable acquisition to the literature of our country. Fulton sleeps under a plain slab in Trinity Church yard, in this city; but he has a monument in every steamboat on our waters.

## Angust $\operatorname{siorms}$

It is a remarkable fact that between the 1 st and 24th of August a severe storm of wind and rain visits our country every year. It generally commences in the Gulf of Mexico, and proceeds in a curve round the Atlantic coast, and penetrates hundreds of miles into the interior. The storm this year was the most severe that has taken place in a great number of years, and committed great ravages. It is also somewhat remarkable that severe storms visit England in the same month. Great fresh ets take place, the same as have been experienced this year in so many districts of our country. Of old they bave beeen designated 'Lammas floods'-Lammas being the name for the 1st of August.

## Making Watches in Switzerland

A large proportion of the work bestowed upon the manufacture of watches in Switzer land, is done by cottagers, who cultivate the earth in the summer, and in the winter shu themselves up with their families during the inclement season, which lasts three or fou months. The whole family then devote themselves to the work of making watch move ments. Not only the children work, but the dog turns a wheel and puts in motion a lathe or a pair of bellows. First, the rough part of the movement is made by water power. Par ticular parts are assigned to the young mem bers of the family; while others are employed in putting the plates and wheels together When a sufficient number have been prepared the master transports them on the back of a mule to some town or village, where he sells them to little master watch-makers, who complete the movements, or else they are sold to travelling agents, who case them in silver or gold.

## Crozs in Europe.

The late news from Europe describe the harvests as being nearly completed, and the crops excellent. In France, where it was sup posed the crops would be much reduced by the great indunations in some of the valleys, they have turned out to be very good. It is believed that the average yield will exceed that of 1855

## New Livhhouse.

A screw pile lighthouse has been erected on the spit abreast the Narrows of Boston Harbor. It is a hexagonal structure elevated on seven iron piles, and is surmounted with an ron lantern. The light is designed to clear the spit by vessels passing through the main ship channel. It is illuminated with a lense ight of the sixth order, elevated 35 feet above high water mark

Russian Rails.
The Russians have commenced to manufacre rails for their railroads, and they are said o be superior to the English, although somewhat dearer. Prior to the late war all their rails were imported from England. Two great proprietors of Russian forges have engaged to to manufacture all the rails required for the new railroads.
Knives should never be dipped into hot, wa er, as it injures the handles. They may be placed upright in the water in a mug, by which plan the handles will be kept dry
Never let waste vegetables, bones, \&c., ac cumulate in an an ash-pit near to the house hey generate injurious gases.

The human system, in its vital or muscular power
chine.

If metallic iron is boiled in a solution of sulphate of alumina, the iron will dissolve, and a sub-sulphate of alumina is thrown down and a sub-sulphate of

