Scientific American. 132 patent, granted 30th May, 1837, for an im- | twelve grains of arsenic in a little soft sugar,

# Inventions. New Improved Blowing Machine.

Mr. Solomon W. Ruggles of Hartford, Conn., has invented and taken measures to secure a very good improvement in Blowing Machines. The blades of the blower are made with side flanges and concave or shovel faces, and above the circle box in which the fan revolves, there is a circular chamber between the roof of the fan box and the outside casing. From the fan box to this chamber there are a succes sion of leading speuts or ways branching off at tangents from the circle box. When the fan revolves, the air is driven rapidly into the circular chamber spoken of, out of the fan chamber, through the ways spoken of, thus preventing the air from accumulating with a back pressure on the fan blades, and consequently obviating the side lapping of the air on the back of the blades. The air passes from the outer chamber to the forge or fire. This blower has been tried in the place of one of the old kind, and its performance has as tonished all those who are acquainted with its action, and the action of the blower it has supplanted.

#### Patent Troubles---Friction Matches.

"A good many years ago," say the Springfield, (Mass.) Republican, "A. D. Philips, then of this town, secured Letters Patent on the invention of friction matches. The patent, however, came to be regarded as a dead letter, and everybody made and sold friction matches, in any quantity. Recently, the patent has been assigned to some Boston gen tlemen, and they have given issue to demands upon manufacturers and venders, in this State. and these demands have been, in some cases, paid. Individuals in Springfield, who have sold friction matches, have, under a threat of suit for damages forked over \$25 each, that being the sum uniformly demanded of traders, as a compensation for their infringement.

An action has been commenced against H. E. Pierce, a manufacturer of matches in Charlemont, in the U. S. Circuit Court, at Boston, which will be tried in January. In the meantime, the Court has issued a temporary injunction upon his manufacture. The action is brought by E. Bryan and others, and they are probably the assignees of Mr. Philips' patent. We understand that it will be shown in defence, that the friction match was the simultaneous invention of quite a number of individuals, one of whom, at least is now a resident of Springfield. Such, at any rate, is said to be the fact, but we are not enough conversant with patent laws to decide upon its weight in such a case as this.

Matches have now become one of the neces saries of life, and the exaction of tribute for their sale would be a tax as universally felt as a direct tax on bread. Their manufacture, not only for domestic use, but for export, has become an important branch of business in many parts of the country. An enormous quantity are manufactured in New York."

The following letter relates to this patent :

PATENT OFFICE, Jan. 6th, 1851. GENTLEMEN-Agreesbly to your request of the 3rd inst., I have to inform you that the patent issued to A. D. Phillips, on the 24th Oct., 1836, was extended to his administrator. E. T. Swift, seven years from the 24th Oct. 1850. No Re-issue was granted. I am, respectfully, yours, &c., THOS. EWBANK. Messrs. Munn & Co.

next March at 12 M.

Successful Result of Arsenic in the Case of Pleuro-Pneumonia.

As we hear still of several losing their cattle from distemper, many being ignorant of, or afraid to adopt the remedy which Mr. Shephard has kindly made known through the columns of your paper, I take the liberty, according to my promise, of giving the details pursued by my steward in one of the worst cases which I have seen. On perceiving the caution should be observed in removing the first symptoms, he bled the cow until signs of exhaustion were apparent; then administered | - [Farmers' Gazette, England.

provement on Fire Arms. This petition will at intervals of three hours, washing the mouth be heard at the Patent Office on the 17th of occasionally with nitric acid, and also the hoofs, from which there was a great running. After the expiration of forty-eight hours, he made her swallow about a pint of oatmeal gruel, and on the following day he gave a mash of boiled turnips and beans, continuing these mashes for about a week, when she was able to eat some cut grass, and soon after became perfectly well. I may mention, as it is not generally known, that both pigs and poultry are liable to catch this disease, so that bedding of affected animals out of their reach.



The accompanying engraving represents a [ teeth, A, in the front of the shank, and there wrench, with an improvement on it made by is a pall, D, on the under jaw, E, which moves J. W. Hargrave, of Lowell, N. C. It requires on a centre-pin, C, with a spring under it to but little description, as it will at once be understood by all who look upon it. Instead of the improvement; it is easily and quickly a screw upon the shank, and a thread inside of changed for large or small nut, and on the the under jaw working on it, there are ratchet | whole, appears to us in a very favorable light.

keep the pall in the rack. This constitutes

New Gas Burner.

## Ear Syringe.

Some time ago we noticed, in a cotemporary, a letter from a correspondent, stating that he was relieved from temporary deafness by inserting a pair of very small iron tongs into the orifice of his ear, and then gently expanding the legs of them. This was practised regularly every morning for two weeks. This view is a syringe, having two levers or forceps, which can be brought very close together at the points. These are inserted into the entrance of the orifice of the ear, and then by pressing upon the lever, A, seen by dotted lines, the legs, B B, expand, and open the orifice of the ear. The bent levers are fixed on



mospheric air is provided for, and is admitted into the interior of the flame. The accompanying engraving is a representation of the burner. A is the exterior of it;

at the upper part it is circular in form, and at

The expedition had literally fought its way up to Selonfeet in Aheer, near to the territory of the Kailouee Prince, En-Nour, to whom it is recommended.

Mr. Richardson had been obliged to ransom his life and those of his fellow travellers twice. The whole of the population of the Northern districts of Aheer had been raised against the expedition, joined by all the bandits and robbers who infest that region of the Sahara.

The travellers are now in comparative security. It has been a tremendous undertaking for them to force their way among tribes who had never seen the face of a Christian, and who look upon Christians as the declared enemies of God.

The great Soudan route, from Ghat to Aheer, is now explored.-[London Times.

## Eclipses for 1851.

There will be four eclipses in 1851,-two of the sun and two of the moon. A partial eclipse of the moon, on the 17th of January will be invisible on this continent. An annular eclipse of the sun on the 1st of February, invisible in North America, but central and vertical in the Indian Ocean. near the Isle of Java. A partial eclipse of the moon, on the States; first contact with shadow, 1 o'clock, 6 min.; middle of eclipse, 2 o'clock, 35 min.;



centre pins at the lower flange of the cylinder, | the lower part cylindrical; the outer part is consequently, by pressing the short ends in- soldered to the ring, B, and the inner to C of wards, the outer prongs expand. Any substance for washing the ears may be used, such as cold weak soap suds. The ear is a member which should be very gently dealt with. It cleansing the ear.

### Mineral Riches of Arkansas.

A Mr. Snell, an accomplished chemist and mineralogist, who has lately been exploring the mineralogical treasures of Arkansas, says he found in the interior and mountainous re-



the burner which is cylindrical and which is also attached to the ring, B, by means of a fine threaded screw, so that it can be raised or depressed, and thereby cause the upper edge is not prudent to use any hot solution for of the inner cylindrical part to approach to or recede from the upper edge of the outer part, A. The inner part, C, can be raised or lowered by means of a key. The cone, D, can be raised or lowered by means of a screw, to 18th of July, visible throughout the United which it is attached, passing through a bridge fixed to the stem of the burner, so as to ad-

M., for the accompanying Post Office statistics for the quarter ending Dec. 31st, 1850 :-California Letters received. 123.912 Foreign do. 340,402 do. California do. sent, 127,048 353,454 Foreign do. do. Total. . 944.816 To this add the daily average of domestic

Post Office Statistics.

We are indebted to W. V. Brady, Esq., P.

correspondence, of say 50,000 letters, and the amount of letters received and sent by transient vessels, and it will give 6,037,000 letters that have passed through this office in the last quarter.

The number of Foreign Newspapers for the quarter is as follows :- Received 169,233 and ent 316.068, amounting to 495.301.

The amount of letters advertised in the quarter, was 37,942, one-third of which have been called for and delivered to the rightful owners.

From the above statement our readers can form some idea of the vast amount of business done regularly through the New York Post Office.

#### Statistics of New York.

The total number of vessels at present on the stocks, or launched during the year, was 77, whose aggregate tonnage is 89,741; of this amount 62 225 tons have been launched. and 27,216 tons remain to be launched.-Nineteen of these vessels are steamships, 24 steamboats, 3 propellers, 28 ships, 4 schooners, and 9 ferry boats.

The number of new buildings erected duting the year 1850 was 1,912.

The deaths including still-born, were 16,954, ratio of 1 to 32.50.

The arrival of emigrants for the year was 234,620, of which 220,788 were aliens, and

There were 2,705 convicted of various crimes. There are 4,741 persons in various offices.

13.932 citizens from foreign ports. The means of regulating the quantity of at-

August last.

The African Exploring Expedition. We have received intelligence from the Saharan African Expedition up to the 29th of

