 lar track on the main shaft, so that it requires but little power to produce a great pressure on the bricks.
The machine is so constructod that while one set of molds are forming and pressing bricks, the other eet are delivering the bricks on racks.

The bricks are preseed sufficiently hard to be handled without marring, so that only racks for one day's work are required.

The machine is also well adapted for making drain tile; the only changes required are to disconnect and remove the molds and place dies of any suitable size in the front of the mud boxes, then arrange a bed of rollers for conveying the tile to be cut into suitable lengths.
The machine is simple in construction, weighing about $2,500 \mathrm{lbs}$. It is worked by two horses, and will make from 20,000 to 30,000 bricks per day.
Patented July 30, 1866, by E. P. H. Capron and James F. Winchell, Springfield, Ohio. For rights or further information address Capron, Winchell \& Co. Springfield, Ohio, or Baker \& Short, General Agents, Columbus, Ohio.

## Belladonna an Antidote for Opium

A correspondent, a professional physician, in a letter to the Medical and Surgical Reporter, details the circumstances of a case where the patient had taken threa ounces of opium tincture, ō laudanum, which had exerted its effects three and a half hours. Fluid extract of belladonna was then administered in doses of twenty drops every ten minutes, which, in twenty minutes, arrested the progress of the opiate, and in about eight hours the patient was so far recovered as to sit $u p$ and conversc. The writer says he is sure that belladonna saved this man's life.

## Unflammability of Coal Gas.

Numerous accidents have occurred, especially in the destruction of vessels carrying bituminous coal, from the generation of an explosive and inflammable gas. An English exchange, in noting the fact, recommends thorough ventilation of the cargo as the proper remedy. It is a suggestion worthy of attention. A lantern taken into the hold of a vessel loaded with bituminous coal, which has been kept for days and weeks confined, not unfrequently
sets the ship on fire and causes the deatruction of life. If a combustible gas, similar to the "firedamp" of the miner, is generated by the confinement of coal in a ship's hold, the proper remedy is certainly proper ventilation, which can be easily secured by the introduction of pipes, perforated where they pass through the mass, and extending above the deck. If these vertical pipes are connected near the bottom by a horizontal tube, and the forward opening is provided with a funnel like that of a

River Falls, Wis., to whom apply for further par ticulars.

## The Influence of Sclence

The address of Gov. Andrew, before the Agricultural Society of Vermont, will well repay perusal, characterized as it is by the depth of investigation and exactness of information which we should be led to anticipate when emanating from such a source. His statements in relation to the agricul tural and mechanical interests of our country are worthy the consideration of every one. The sta tistical information is of great value; figures are stubborn facts which no subtlety of argument can overthrow, their posses sion furnishes a power which no opponentis able to gainsay or resist, while the acquisition of such power cannot fail to be both pleasant and profit able when presented in the engaging manner o the address before us.

Among the important points brought forward, the following remarks on the value of improve ments in machinery seem eminently just: "The activity, the ingenious cunning and the aspiring enterprise of American mechanical inventiveness -have made mankind its debtors, increasing supply, cheapening cost, re lieving the hardships of labor, and doing its part toward the amelioration
wind-sail, the mouth opening forward in the direc- of man's estate. Our own manufacturers introduced tion of the vessel's course, and the other pipe having the productiongf heavy cotton fabrics, by the applian opening astern, a current would be generated cation of the least amou ${ }_{n t}$ of labor to the greatest which might safely convey the deleterious gases to the external atmosphere. The subject is worthy more attention than has heretofore been bestowed upon it.

## NEWBURY'S SHOE CLEANER.

Every person has experienced the inconvenience of not being able to remove, by the usual means, the dirt and mud adhering in the crevices between

the upper and sole of a boot or shoe. The simple apparatus shown in the engravings is designed to obviate this trouble. It is a clamp of cast iron, A the two jaws hinged, and the whole secured to th door step or the floor of the entry by screws. A 'brush or broom of semicircular form is placed between the jaws and secured by the thumb nut and bolt, B. When worn, the brush can be easily replaced by an other. No further explana tion is necessary, as the con trivance will commend itself to the approval of every housekeeper.
Patented through the Scientiflc American Patent Agency July 10, 1866, by L. M. Newbury, of Black
quantity of raw material, producing a description of goods cheaper to the consumerthan any before existing. They were followed in this, not led, by the manufacturers of England, by whom even the character istic name of the American article was adopted for their own imitations spuin from the cheaper cotton of India. They have assisted in the reduction of the cost of fabrics to the consumer, so that cottons, sell ing in 1816 for 30 cents the yard, cost but eleven cents in 1846, since which, until the rebellion, they have vibrated with the price of cotton, between seven cents and nine cents the yard.
"One single cause, namely, the application of science to the arts, is seen in the development of manufactures by the highest mechanical agencies. It has brought together the remotest parts of the land; it has restored waste land and bogs, by drainage, by agricultural machinery, and the intelligent adaptation of crope and fertilizers. It is seen in manufac turing and agricultural machinery, in civil engineer ing, in the construction of bridges, locomotives, cars, steamers, and railways, in the treatment of soils, the management of breeding, the rotation of crops, and the composition of fertilizing materials, and in all the thousand manipulations of practical husbandry.
"I deem it not too much to affirm that the national existence is due this day to our agricultural and mechanical strength as developed by the science of modern times At any previous stage of the world, I see not why an enterprising and obstinate foe operating on interior lines, and within a territory so vast and so defensible, might not have maintained himself with ultimate success against an invading arny three times as numerous as his own. Bring ing to our aid the appliancesand enginery of modern science and art, these conquered, by overcoming the obstacles of space and time."

AT the late Nottingham meeting, the British savans gravely listened to the reading of a paper by a certain Lord, on the raising of weights by the swelling of soaked peas.

