Scientific American.

THE ADVOCATE OF INDUSTRY, AND JOURNAL OF SCIENTIFIC, MECHANICAL AND OTHER IMPROVEMENTS.

Dol. 4.

New York, April 21, 1849.

No. 31.

THE Scientific American. THE

BEST MECHANICAL PAPER IN THE WORLD. CIRCULATION 12,000. PUBLISHED WEEKLY. At 128 Fulton Street, New York (Sun Building,) and 13 Court Street, Boston, Mass.

By Munn & Company. The Principal Office being at New York. Barlow & Payne, Agents, 89 Chancery Lane, London TERMS---\$2 a year-\$1 in advance, and the remainder in 6 months.

Poetry.

THE VOICE OF THE PESTILENCE. Breathless the course of the Pale White Horse, Bearing the ghastly form : Rapid and dark the spectre bark When it sweeps before the storm, Balefully bright through the torrid night Ensanguined meteors glare; Fiercely the spires of volcanic fires

Stream on the sulphurious air !

Shades of the slain through the murder's brain Flit terrible and drear ; Shadowy and swift the black storm-drift

Doth trample the atmosphere ! But swifter than all, with darker pall Of terror around my path,

I have risen from my lampless prison-Slave of the high God's wrath !

A deep voice went from the firmament, And it pierced the caves of earth ; Therefore I came on my wings of flame

From the dark place of my birth ! And it is said : "Go forth from the South to the North

Over von wandering ball ; Sin is the King of that doomed thing, And the sin-beguiled must fall !"

Forth from the gate of the Uncreate-From the portals of the abyss ;

From the caverns dim where vague forms swim And shapeless chaos is ! I come, I come; before me are dumb

The nations, aghast for dread-Lo! I have past as the desert blast.

And the millions of earth lie died ! A voice of fear from the hemisphere

Tracketh me where I fly ! Earth weeping aloud for her widowhood---A wild and desolate cry !

Thrones and dominions beneath my pinions Cower like meanest things-

Meltfrom my presence the pride and pleasance Of parlor-stricken Kings !

Sorrow aud mourning supremely scorning, My throne is the boundless air-

My chosen shroud is the dark plumed cloud, Which the whirling breezes bear !

From tomb of the waters, athirst of slaughters, I rose that thirst to sate; These green isles are graves in the waste of

the waves Their beauty is desolate.

Did I not pass the granite mass,

And the ridged Caucasian hill, Over burning sands, over frost-chained lands, Borne at my own wild will?

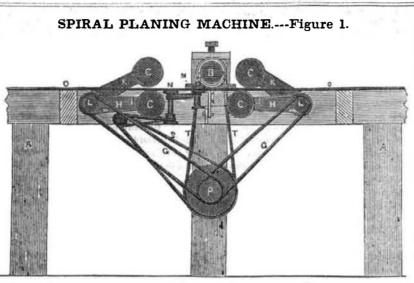
Then hark to the beat of my hastening feet,

Thou shrined in the sea : Where are thy dreams that the ocean streams Would be safety unto thee?

Awaken ! awaken ! my wings are shaken Athwart the troubled sky ;

Streams the red glance of my meteor lance, And the glare of my eager eye!

- Harken ! oh harken ! my coming shall darken The light of thy festal cheer;
- In thy storm rocked home on the Northern foam Nursling of Ocean-hear!

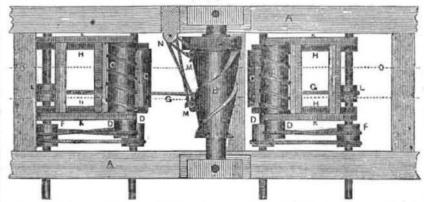


This is a machine invented by Mr. Joseph E. Ware, of St. Louis, Missouri. The cutter is a screw of uniform pitch wrapped round a cylinder and the boards are fed in by breeding rollers. The tongueing and grooving is done at the one operation. Fig. 1, is a vertical section, and fig. 2 is a top view. The same

letters refer to like parts on both figures. A, is a stout frame. B, is the spiral cutter and cylinder. C C, are the feeding rollers -They are formed like the breeding rollers of a calender. The upper feed roller is fixed upon a swing frame K, and is secured on an axis, so as it can be lifted up and laid back at pleasure. The loser feed roller is smooth and is immoveable, but fixed in a suspension frame H. The rollers on both sides of the knife are operated exactly alike. O O, represents a board going through the machine.-M M. are the tongueing and grooving cutters.

They are spur knives secured on small vertical shafts. These cutters match the boards after they pass from under the planing operation, and they can be shifted by set screws on the transverse sleepers to which they are secured, to match different widths of boards .-The arrangement of the planing apparatus being now described, which will be plain to all, the pulleys and bands show how it is driven. Motion being communicated by any power to P, the main driving shaft ; bands G G, pass from it around small feeding pulleys L L, and from them around small pulleys on the ends of the axis of the feeding rollers C C, and this gives motion to the feeding gear. The band S, gives motion to the tongueing and grooving shafts through the intermediate shaft N. The band. T, gives motion to the spiral cutters on the cylinder B.

Figure 2.



low cylinder secured to a shaft or otherwise secured on the cylinder. The feeding rollers are the only kind adapted to feed into the spiral cutters. The tongueing and grooving knives, as represented in fig. 2, are of the bill hook form and are also spirally formed near their cutting edges. The combination of the breeding spiral roller with the spiral

Help one Another.

It is said that when the Emperor Augustus

was passing through the baths at Rome on

one occasion, he saw a veteran, who had

fought with him, rubbing himself after bath-

ror inquired why he had not a boy to do this ?

And being told that he was poor, ordered him

the means of paying one. On his next visit

he saw at every column an old man rubbing {

bimself, and on making the same inquiry he

received thesame reply. His rejoinder, how-

ever, was not what they expected ; for he said,

"Well, gentlemen, as there are so many of

you, I should advise you to rub one another."

Augustus here taught them sound wisdom; he

taught them not to depend on the caprice of

ing, against one of the columns.

a patron, but to help one another.

The empe

The spiral cutters may be formed in a hol- | cutter is the important feature in this invention. The spiral cylinder B, can be elevated or lowered at pleasure.

Many have allowed that the spiral planer was good, but could not be used for want of a good method of feeding-this difficulty is removed by Mr. Ware, who has taken measures to secure a patent.

Singular Petrifaction.

An article in Hunt's Merchant's Magazine, descriptive of Detroit, makes mention of a most remarkable fossil, to be seen in that city. The building erected for the use of the Bank of Michigan, now in use of the government of the United States, is constructed, in been represented as a worthy person, pecupart, of a species of shell limestone, brought liarly qualified to make the desired examinafrom the island in Lake Erie, and polished | tion and report ; and the probability is that he for the purpose. One of the surfaces presents a section of a petrified human face and skull. In preparing the stone by the chisel, the petrification was divided from front to rear, vertically, so that it shows a profile of the from which this curiosity was obtained is of large size.

RAILROAD NEWS.

Internal Improvements in Virginia. The Richmond Times says, that the late session of the Virginia Legislature was marked by the adoption of a very unusual number of measures of Internal Improvement of which it designates the following as the most important, which had passed both Houses:

" The bill for the Virginia and Tennessee Railroad makes a State subscription of threefifths of the capital of three millions or \$1,880,-000.

The bill for the Blue Ridge Railroad appropriates from the treasury \$100,000 annually, for three years, for the construction of a railroad and tunnel from the eastern base of the Blue Ridge, at Rockfish Gap, to Waynesborough, in Augusta; and further, subscribes three-fifths of \$150,000, or \$90,000, for the extension of the railroad to Staunton.

The bill for the Alexandria and Orange Railroad, subscribes an additional fifth, viz : \$189,-000, for the construction of that work ; a subscription of two-fifths having been already authorized by an act of last Legislature.

Another bill authorizes the State's guaranty to the bonds of the James River and Kanawha Company to the amount of \$350,000 for completing the connexion between the canal and the tide water, and of \$150,000 for completing the Rivanna and South Side connexions.

Another bill appropriates \$60,000 for macadamizing a portion of the Staunton and Parkersburg road.

The bills above enumeraled, anthogizs an. aggregate appropriation of \$2,920,000, and besides these leading measures, a large number of appropriations have been made for different turnpikes, chiefly in the western part of the State.

The Senate has rejected two important bills, which were passed by the House ; one making a three-fifths subscription of \$300,000 to the Fredericksburg and Blue Ridge Railroad; the other a three-fifths subscription of \$900,000 to the Alexandria and Valley (Manasseeh's Gap) Railroad.

Hartford and Bristol R liroad

The grading and masonry of from fourteen to eighteen miles of railroad extending westerly from Hartford through New Britain to Bristol is to be immediately put under contract. This road is designed ultimately to be continued on to the North River, so as to connect with the Erie Railroad. Before it reaches Bristol it will cross the Canal Railroad (from New Haven to Farmington) and thus will make a connexion between New Haven and Hartford and New Haven road.

Michigan Central Railroad.

This Railroad is 195 miles long, the average speed of the cars is 20 miles per hour. It is well conducted and ably managed.

Raising the Steamer Missouri at Gibraltar,

Secretary Preston, it is said, has called by letter, upon Commanders Warrington, Skinner and Smith to report the name of some suitable person to proceed to Gibraltar for the purpose of making an examination into the condition of the steamer Missouri, sunk near that place some years since. Capt. George W. Taylor, of submarine-exploring fame, will have the mission.

Tennessee Cotton Manufacture. The entire stock (\$30,000) in a new cotton manufacturing establishment proposed to be erected near McMinnville, (Tennessee,) is face, a transverse section of the cranium, with subscribed for, and measures are to be taken petrified folds of the brain itself. The block for procuring all the requisite materials for erecting the necessary buildings. It is the intention to run 200 spindles and 60 looms.