

## ลNew $\mathfrak{I n v e n t i o n s . ~}$

## New Boring Machine

Mr. D. Mathews, superintendant of Messrs Mr. D. Mathews, superintendant of Messrs has invented a new Boring Machine which our valuable exchange the Baltimore Sun, says "will doubtless be of great advantage to machinists, sir.ce its susceptibility of application to boring generally is guarantied by the pe culiar principles contained in construction Some idea of its advantages may be inferred from the fact that it wili accomplish the ex ecution of a work in one-sixth of the tim ordinarily required by the common process, and will bore out more than fifteen hundred pounds of heavy metal in twenty hours. An other great advantage derivable from its con struction is proven by the mode of operation creating the eyes by the extraction of the me talin one piece, whereas the plan generall used, chisels the substance in such a manner as to produce shavings, thereby occasioning further loss."

New Plano Attachment.
Messrs. Boardman and Gray, Piano Forte manufacturers, Albany, N. Y, have lately in vented a new attachment which is styled the Dolce Compana, and produces, when attached to the Piano, a sound not unlike the rich music of the "bells" of the Swiss ringers, lately among us.
Those who have heard it pronounce it to be more beautiful and soft than what was called Coleman's . Aolian Attachment, (but which turned out to be Cooper's of Savannah Georgia.
mprovement in Pumps.
Thomas E. Shull, of Lewistown, has invented an improved Double acting force and Iift Pump.

## New process to Color Stone and it hard and impermeable.

This is a recent French invention to mak porus stone impermeable to moisture and also to color it-any color. Whether this is the stone used in Paris for printing on the common press, or not, we cannot tell, although it is somewhat reasonable to suppose that if figure is drawn upon porous stone with a tal low crayon, and then the rest of the stone bit down with sulphuric acid to leave the lines clear, then hardened as follows, it would print well on the common press.
When the stone is wanted a dark color, solution is made of 85 parts tar, 10 parts bitu men and 3 parts tallow with a small portion of linseed oil. These ingredients are put in a suitable vessel, and boiled; the patente prefers using a boiler with a cover, in which a pipe is inserted, by which the spirit and gases liberated in the boiling can be carried off and condensed. When the solution boils, the stone is placed on a suitable frame, and lowered by a small crane into the boiling so lution. The stone is placed in a trame for the greater convenience of removing it from the solution.
When the stone has to be soaked through it will require to be left in the boiling solu tion for from 8 to 48 hours, according to the size of the stone; but if it is required that the solution should penetrate one inch, two hour immersion will be sufficient ; or for two in ches, four hours; or for four inches, eight hours; but the time required will vary with different kinds of stone-some stone is of that porous nature, that the pores at the surface will not become filled up even after long con tinued bonling; in this case mis with a por tion of the above-mentioned solution, a mix ture of carbonate of lime, rust of iron, gra nite, and potter's clay, in fine powder. The stone is allowed to cool, and then this componnd is applied to the surface with a ho iron or other convenient means
When it is required that the stone shoul
be of a light color, instead of employing taras the base of the solution, employ resin of the slightest color that can be obtained, together with turpentine and other oils, and all kinds of gum, in the proportion of 80 parts turpentine, 15 per cent. resin, and the proportions of gums according to the nature; this solution is applied to the stone in the same manner as he above. When the stone is required to have a clear white color, add to the above last mentioned solution, white lead, and zinc, and carbonate of lime. In all cases when the stone is to be colored, this last-mentioned compound s always to be used as a ground, to which may be added for a red-red lead, oxide of ron, Chinese red, Chinese vermillion, draon, Chinese red, Chinese vermillion, dra- $\left\{\begin{array}{l}\text { trip } \\ \text { on's blood; for green-acetate of copper, }\end{array}\right.$

## BUNG CUTTING MACHINE.---Flgure 1.



We here present two views of a machine invented by Messrs. Dowdy \& Sweet, No. 35 Cross st. this city. Fig 1 is a side elevation and fig, 2 a view of the cutter stock and cuters. A, is a stout table. $H$, is a strong upright post in the middle of the table. To this post the cutter shaft C , is secured by proper earings $\mathrm{D} D$, to allow it to revolve. $F$, is a screw which passes through a bearing $G$, into an opening in the head of $N$. J, is an elevating bed or rest for the plank that is to be cut into bungs. It is fixed on a treadle J , which is by a foot spring $K$, which when pressed upon owards $L$, the bung bed is elevated through n opening in the middle of the table, and as he foot presses $K$, so is the plank fed up to the cutter till the bung is cut, when the foot being released the bung is driven out by a spiral spring which will be better understood by fig, 2.

Fig. 2.


A, is the cutter stock. It is of a cylindri-

## Iron Ore.

Prof. Ehrenberg has discovered that bog iron ore, from which the beautiful Berlin castings are made, originates from tan animalcule that once had life, the whole mass being composed of the bodies of myriads of these animals; and that the Tripoli or polishing powder, so extensively used in the arts and in Berlin to form the castings of moulds in the iron-foundries, is entirely composed of he shells of similar animalcule, capable of

Brunswick green; for blue-cobalt, Prussian blue; for yellow-ochre.
This is the subject of a foreign patent to Francois Teychene, now of London.-Ed.

## Yankee Music in London

The London Atheneum for August announces the arrival at 142 Strand, of one of the " best specimens of pianofortes, manufactured by Chickering, of Boston ; price seventy five guineas."
Aye, Mrs. Atheneum, Brother Jonathan is not only bound to cool all the wine in Eng land with his ice-make all the babies dance with his jumper, but is bound to make all the Dutchesses, Countesses and all the other "' s 's" trip the light fantastic toe to Chickering's Piatio.


## isued from the united states paten

 OFFICE,For the week ending Oet. 3, 1848.
To James E. Ellen, of Granville Co. N. C. or improvement in machines for cleaning To bacco leaves. Patented Oct. 3, 1848
To Cornelius L Guodrich, of Ann Harbor, Michigan, for improved machine for planishing and hammering metal. Patented Oct. 3 1848.

To Jos. M. Marsh, of New York City, for improvement in Printing Presses. Patented Oct. 3, 1848.
To John Robertson, of Brooklyn, N. Y. for improved method of manufacturing Sheet Lead. Patented Oct. 3, 1848
To E. C. Sherman, of Philadelphia, Pa. for improvement in Cream Freezers. Paten ted Oct. 3, 1848.
To A. D. Brown, of New York City, for improvement in Harness Saddles. Patented Oct. 3, 1848
To E. J. Mallet, of New York City, for im proved Bell Telegraph. Patented Oct. 3,1846. To Edwin Butterfield, joint inventor with and assignee of G. W. Clark, of Lowell, Mass. for improvement in Mills for Grinding. Pa tented Oct. 3, 1848.
To E. Sampson and C. S. Collier, of Wea thersfield, Vt, for improvenent in Scales for Weighing. Patented Oct. 3, 1848.
To Lewis Norton, of Madison, Conn., for improvement in Mills for Grinding. Patented Oct. 3, 1848.
To Marvin Smith, of Meriden, Conn, for improved Table Cutlery. Patented Oct. 3 1848.

To J. W. Wilson, of Syracuse, N. Y., for improvement in machines for Hoisting. Pa tented Oct. 3, 1848
To Zachariah Griffin, of Montgomers, Ala. tor improvement in Mills for Grinding. Patented Oct. 3, 1848
To Levi Hall, of Adrian, Michigan, for improved Saddle Frame. Patented Oct. 3, 1848. To William B. North, of Jersey City, N. J or improvement in Mills for Grinding. Pa tented Oct. 3, 1848
To Edward Rouse, of Augusta, Maine, for improved method of Steering Vessels. Patented Oct. 3, 1848.
To R. B. and A. C. Jennings, of Livermore, Maine, for improvement in Horse Rakes. Patented Oct. 3, 1848.
To J. Yoder, J. Gillford, and E. Gruver, of Juniata, Pa., for improvement in Corn Planers. Patented Oct. 3, 1848

## INVENTOR'S CLAIMS

Horse $\overline{\text { Power }}$
To James Bogardus, of New York City, for Sun and Planet Horse Power. Patented August 29, 1848. Claim.-What he claims is making the central standard in which the central shafts turns and on which the main sleeve of the travelling wing turns a part of, and projecting upwards from the base frame of which the master wheel makes part, when this is combined with the wing, to which the horse level or beam is attached, and made with two sleeves, one fitting to and turning on the central standard, and the other forming the box for the arbor or shaft of the planet wheel.

Mill Stones
To Frances Kelsey, of New York City, for improvement in mill stones. Patented Aug. 29th, 1848. What he claims is the mode of constructing mill stones by means of the face plate, groove strips, and partition boards, and the mode of arranging and securing the grinding fragments.

## Coal.

To Wm. Easby, of Washington, D. C., for method of converting fine coal into solid lumps. Patented Aug. 29th, 1848. What he claims is the formation of small particles of any variety of coal into solid lumps by pressure.

