# Strimetifit Ammerican． 

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

VOLUME 5．］
NEW YORK AUGUST 24， 1850.

IMPROVED GRAIN CLEANING MACHINE．．．－－Fig． 1.


This machine is the invention of F ．Harris ！adjusted as to blow out all light ingredients， \＆Sons，of Brooklyn，N．Y．，and was original－ $\mid$ without wasting a particle of grain． y invented to hull and pearl rice and coffee， but recently it has been a pplied for smutting and polishing wheat and other grain．Figure 1 is a perspective view，and figure 2 is a ver－ tical section showing the shape of the stone． The same letters of reference indicate like parts．A is the frame；$B$ is a running stone； C is a wire case around the stone．A portion of this case is removed to show the stone；D is the spindle； E is a screw bolt，with a thumb nut on it for raising or lowering the bridge tree of the running stone；$F$ is a blower or $\mathrm{r}^{-}$ volving fan，to drive away the lighter parti－ cles；$G$ is the fan spout；$H$ is the driving Fig． 2.

pully．In fig． 2 K is a top bed stone，and J is a lower one； $\mathbf{N}$ is a spout which carries the grain into the fan，and $M$ is a pully from which a belt passes around a small pully on the spin－ dle of the blower（fig．1）to turn it in its bear－ ing brace， L ，and drive the fan．The stones can be set at the rigbt distance apart to pearl barley and wheat in small quantities．The stones consist of three concave and plano－ convex stones，of a very porous nature，dress－ ed similar to a mill stone，only closer，forming a thorough beating and scouring surface，with a heavy square wire cloth case around them， （the running or centre stone making 400 revo－ lutions per minute，）all set into a frame，as above represented，with a new－principled fan or blower，rendering a powerful current air
through a vertical or perpendicular spout，so

Mississippi and Atlantic Rallroad．
At a large meeting of thestockholders of this road，held at Vandalia，Illinois，on the 29th ult．，the Company was organized by the elec－ tion of seventeen Directers，who elected Wm． S．Waite，Pres＇t ；H．P．H．Brownwell，Secy． Ebenezer Clapp，Treasurer；Wm．H．Morri－ son，Engineer．Subscriptions to the amount of $\$ 160,250$ were returned to commence with， and an immediate survey and location of the road from the Illinois line，near Terre Haute， to the Mississippi River，opposite the City of St．Louis，was ordered．

Portland and Vicksburg Rallroad． A convention of citizens of Georgia，Ala－ bama and Mississippi，and others who may be interested in the great chain of railroad from Portland，Me．，to Vicksburg，Miss．，is to be held at Livingston，Ala．，on the 1st of Octo－ ber next，and books for subscription to the stock of the road are to be opened on the 7th of October，at various points on the proposed route．
Mr．Edwards，the Engineer of the Troy and Boston Railroad，and Mr．Felton，the Superin－ tendent of the Fitchburg Road，have beensent to Europe by the Troy and Boston Road to obtain information in regard to the new inven－ tion of the powder drill，by which it is stated 22 feet of solid rock may bot through per day．
［We imagine that the above－named individ－ uals will return cleverly hoaxed．The English occasionally announce new discoveries some－ thing after the＂grave＂style which the Glas－ gow Mechanic charges the Yankees with．

The Selma（Ala．）Reporter has accounts from the interior highly favorable to the Ala－ bama anil Tennessee Railroad，and concludes that the completion of the road is now cer－ tain．Great enthusiasm prevails in the coun－ try where the various barbecues are being held，and in Benton County $\$ 70,000$ worth of stock has been subscribed，with a prospect of over $\$ 100,000$ being obtained in the County．

The Newburyport Herald says the Essex Railroad，excepting three or four miles in Sa－ lem and Danvers，will probably go out of use and the structure be taken up and sold to pay the debts of the concern．The Road has been superseded by the Salem，Lawrence and Low－ ell Railroad．
The New Albany and Salem Railroad is pro－ gressing rapidly toward its completion－the superstructure is laid down in readiness for the rails．

The Boundaries of Utah are thus defined by the bill which has just passed the Senate，erec－ ting it into a territory：－Bounded on the west by the State of California，on the north by the Territory of Oregon，on the east by the sum－ mit of the Rocky Mountains，and on the south by the thirty－seventh parellel of north latitude

The grain passes in the machine，as seen in the section above，at the centre of the top bed－ stone around the spindle，thence by the centri－ fugal force is thrown out to the periphery of he centre，or running stone，passes by its own gravity between it，and the case and so out by the spout at the centre of the lower bed－stone －a distance（on the 30 inch machines）of over eight feet．They will clean from 20 to 150 bushels per hour，according to size，without breaking or wasting the grain，and fron 70 to 30,000 bushels previous to being dressed or picked，which makes them do the work as well as when first put up．They can also be set （as necessity requires）to suit all kinds of grain， and are well adapted to custom mills．They are also very superior for cleaning Buckwheat． The proprietors being engaged in the mill－ ing business，and being well aware of the importance of a good one，are willing always （if requested）to have their Machine thoroughly tried and tested with any or all other machines， and will warrant them to last twenty years．
We would state that we have seen nume－ rous certificates from eminent Millers in va－ rious parts of our country，who universally give it as their opinion that this is the best grain cleaner they have ever used．We can also speak personally about it，for we have seen this machine in operation at the great flouring establishment of Messrs．Hecker \＆ Brothers，of Cherry strest，N．Y．，and from personal observation we can speak confidently of its superior merits．In a great number of places，it has superseded，satisfactorily，other machines which had been employed for the same purpose．There are eight different sizes of these machines，varying in price from $\$ 75$ to $\$ 250$ ．and are made at the Messrs．Harris＇s Factory，near the Old Bridge，at the foot of Butler street，Brooklyn，L．I．，to which com munications should be addressed，post－paid．

The curious and exquisitely finished ivories， sent home by Mr．Layard from Ninevah，when theyreached England seemed about to crumb into dust．The keen eye of modern science instantly detected the cause of the decay． ＂Boil them，＂it said，＂in a preparation of gelatine；it is that constituent part of the ivory which has perished．＂It was done ；and the ivories are as hard and firm as when first carved；they may last another thousand carved
years．鸟

