mandfactoring, mining, and railroad items. The Pennsylvania oil wells tarned out 12,235 barrels a day last montb. The Troy foundries
ahead of the supply.
It takestwelve thousand tans of coal to supply the furnaces of the glas factories on the line of the West Jerser Railroad.
The rolling mills at Portland are manufacturing fifteen handred tuns of
rails for the Grand Trunk Kailway.
The Washington Mill Company at Lawreace. Mass., is erecting a new mill for the manufacture of worsted goods. It will be two bandredfeetlong, sev A train on the Wisconsin Division of the Chicago and Northwestern Rail way, is reported to have recendly rni fify-one miles in forty-nine minates, and ninety-one miles in ninety-five minates.
Over a million ponnds of tobacco, on which tbe owners are unable to pay
the taxes, are now stored in Richmond. the taxes, are now stored in Richmond.
Flouring mills in Minneapolisand St. Anthony will tarn out 180,000 barrele of flour in the next two months.
It is said that the New England Express Company will soon begin opera-
Phi adelphladoes a great business in tee marble manufacture. It has sixty marble yards. Tbe matutacturers employ a large number of scalpors and carvers, and the business is very active.
both situminous and anthracite coal have been found in the Rocky Moun tains, on the line of the Puclic $R$ nilroad, close to the track. The best co
Held is near Benton, in the vicinity of the cr ssiug of the North Platte.
 The mail agents on the Union Pacific Rallroad have been armed with
Spencer carabloes, with which to protect themselves against the atta cks Spencer carabines, with which to protect themselves against th
of Indians upon the manl traing, which it is feared they may make.
It is said that fifteen bids for the completion of the Hoosac Tunnel were re
celved by the Execative Council. The lowest was $\$ 4,270.000$. The partie celved by the Execative Councll. The lowest $\$ 4,20.000$. The partie which being too large to meet their views. The matter rumains in ab, yance An explosion ocuarred on the 22 d alt., in Richards \& Verplanck's ofl renery in Jersey City, by which two men were killed and
ured. Twenty thousand dollars worth of oll was burned.
The Chollar $P$ t tosi mine. Nevada, has made its annual report for the fiscal year, ending May 318t, 1868 . Amount of ore extracted from the mine 70,3301/
 tun. $\$ 2414$; cost of milling, 81475 ; actual cost of exuracting per tun, $\$ 4.24$;
tiling mine and dead work per tun. extraced $93 \% \mathrm{c}$.; tuxes per tun $22 \% \mathrm{c}$;

At the works of the Manseld Elaetic Frog Company, Hartford, can now
be seen a series of railroad frogsjoined together so as to form one huge diabe seen a series of railroad frogsjoined together so as to form one huge dia-
mond forty feet in leng' h , and costing three thousand dollars. It is designed for the dounle track crosiang of the Boston and Albany railroads near Bos. ton, and is said to be the largest piece of this kind of work ever attempted

## 

Under this heading we shall publish weekly notes of some of the more prom-
inert home and fursign putents.
Robsing M Aobine.-C. Gillpio and L. T. Dickinson, Cumberland, Md.-The object of thisi, vention is to construct a simple and effective machiut
shall ross the bark more thoroughly than has heretofore been aone.
Rosiring Maohiske.-C. Gilpin and L. T. Dickinson, Cumberland, Md.-This improvement consitst in the employment of a reciprocating
cutting I lade, to split the bark as it comes from the rollers.
Coffer Roabter.-J. E. Edmundson, Bartlett, Ohio - The object of this inventinn lis to produce a neat and convenient instrument for household use, tor the $p$ rpose of roascing coffee expedi'lonsly and uniformly, and without
Cblifivator.-M. F. Lowth and T J Howe, Owatonna, Minn,-This inven-
tion as tor its object the fastening of the cultivator tooth to the deam in such tion as ior its object the fastening of the caltivator tooth to the bewm in such
a manner that, whill- it remains firmly in'position under any ordinary sirain, it will yield when in contact with an immovable oostacle without break' ing.
Glass Ligris.-Wm. A. Demath, New York citt.-The object of this in-
vention is to construct a beantiful and cheap glass 1 ght for wind erns, and othet purposes, which shall de more ornamental and less expensive than plate glass, and which shall be less liable to damage by fracture
than any other glass lights now in use.
R costio Blind SLat Plane.-R. E. Lowe, Upper Alton, Ill-The object of
thisinvention is to construct a simple and easily adjastable iostrument by thisinvention is to construct a simple and easily adjastable fostrument by
which the alats, of which ustic window blinds are made can be cut out from which the alats, of which ustic window blinds are made can be cut out from
the wnod in an easy and expeditlous manner. The instrument is so improved that the slats can be cut of different widths and thicknesses, whilt, if the
plane becomes dull, it can be made to present asharpedge again in a moment plane becomes dull, it can be made to present as barpedge arain in a moment
of time, without the necessity of removing it to the ground or sharpened. Man Power Machins.- Jacob G. Deshler, Allentown, Pa.-The object of
this invention ts to furnish a aimple and effective machine for ransmitclng this invention ts to farnish a simple and effective machine for ransmitting manpower with the least fatigue to the operator. It consists of a vibratory
foot board, in combination with a crank shaft, and a pair of double pitmen foot board, in combination with a crank sh
connectiog the cranks of the crank shaft.
Nbst Box For Hens.-B. F. Hayward. Nebraska citt. Nebraska.-The ob-
ject of this iovention ts to provide a nest box which will close antomaticalls when the hen gets upon her ness, and will opan in the same manoer when the fowl wisbes to leave her nest, wuereby a setting ben may be protected
from anonagnce from other fowls or other animals prone to annoy hens from annogance from other fowls or other animals prone to annoy hens
while aatching or laying. while hatching or laying.
Beritive.- V. Zimmerman, Morris, Ill.-This invention relates to a new
and improved beebive, and it it consists in a novel arrangement of banging and improved beebive, and it it consists in a novel arrangement of banging a novel moth crap, and adjustable slides.
Bez Hoves.-James Tallman, Claytnn, Ill.-This inventionrelates to a new and useful improven
LAMP.-J. P. McGee. Trenton, Tenn.-This invention relates to the method of rastenng the burner to the lamp. whereby the ase of a screw is avolaed,
and the process of attaching and detaching the beorner is greatly taclitated. Machine for Molding Candy.-E.K. Powers, Grand Rapids, Mich-This invention relates to a new and improved machine for molding candy, and is
more especially designed for molding pop-corn candy. The invention consists of an improved means for forming the caudy into proper sized sticks, and then compressing the fame.
 lates to improvenuents in presses for making concrete blocks, whereby it is designed to provide a simple ana effictive macnine for accomplisuing the
same, and it consists in the arrangementand combination of the parts con struting tre same.
BEEHIVE.-Geo. Eason. Lyons, N. T.-The object of this invention is to provide a chamber for the deposit of the bonlding cells, and that portion of
the hon'y, on which the bees substit, which may be readily adju ted to a the hon y, on which the bees substit, which may be readily adjunted to a
capacity to suit the demands of the family, and also an mproved arrangement of clear honey boxes.
Projegtile for Fire-aris.- Charles F. Brown. Warren, R.I. - This inven.
tion relates to a new shell projectile, to be propelled by breech or muzzle oading ordnance, the shell being ofthat class which explodes, whenitr muzaches the mark. The invention consits chiefly in the use of a tubalar fuze holder
witbin the load $d$ sheil, and in the use of a plunger wittits the fuse holder. all operating it such manner that tue fuse is ignited bv the charge. Which propels the sbell, but that it does not Ignite the powder in the shell until the
latter has struct jis mark, the ground, or sume otber object.
WIND Wherl.-Benjamin H. Hondqle, Newburyport, Mass, - This invention
consisis in an arrangement whereby the sails are suspended from the outer cons18s in an arrangement whereby the sails are suspended from the outer
ends of the horizontal armsof a vertical siaft, in such a manner that the action of the wind will open them when they have arrived at tue position when it will have no ffict on them by drect oction, and thereatter operate
on them by rea tinn for a considerable portion ot the revolation. It also on them by rea thn for a considerable portion of the $r \in$ volation. It also
consi ts in an arrangement of means for furling the salls, and thereby stop consi ts in an arrangement of means for furling the sa
ping the wheel, or unfuriligg them to set it in motion.
pas the wheel, or unfurling them to set it in motion
Parlor and Firld Ball Gam r.-Wiliam H. Wilsen, Providence, R. I.Phis invention relates to a new game, which is partly one of skill and partly
of chance. The invention consists in the use of a revolving pointer or index had, moving over a disk on which numbere or words are maried, saldin dex hand being either itself exposed, or having a pendant or arm which is exposud to the action of a ball thrown by the player. As the ballstrikes the
poitter or its arm, the same will swing aronod its pivot, and will, when it polcter or Its arm, the same will swing aronod its plvot, and will, when it comes to rest, point to a figure, wor
ing the further progress of the game
Fire Esdapre.-Jürgen L. Jürgens, New Orleane, La.-Tbis invention consists of a car provided with axles made adjastable in the direction of the
length of the same, and conaected together by a shaft having a right and ngth of se same, and cooaected together by a shaft haviog a hat and left hand screw thresd, by which the sald axles may be expanded or con-
tracted as it ts move 'up or down Inclioed ways, plac-d outside of the build ing conveulent to the windows of the same, to admit of the incrates of he bullding entering the car as it passes down from one window to another.
Ingtrumint ror Removing Coris from Bottleg.-George W. Scberm-
erhorn, East Limingtoo, Me.-This invention bas for its odject to furnish a erhorn, East Limington, Me.-This invention bas for its odject to furnish a neat, simple,
from bottles.
Pencil Sazati or Holder.-Samnel Ayers, Danvill?, Ky.-This inven lon has for its object to furnish a neat, simple and convelient device by means of which apencil
at hand ready for use.
fore for horser and oterr animals.-Thomas J Barnes, Cambridge roved herse proved horse,yoke patented by the same inventor, Nuv, 5, 1867, and
30,502 so as to make it more conventent and effective in operation.
Hay Rake and loader.-William H. Hitesbew, Perrysburgh, Ind.-Thi fectiven has ior it : object to furnish a machine, simple in construction and he wagin operation whlch will collect or raka that
Horbe Hay Rakes.-William h. Cook, Bridgebampton, N. Y.-This inven Hon has for its object to improve the construction of revolving horse bay rakes so as to make them more effective and convenient in operation tha
when const
SoraHuk
Sorghom Litaporator.-Jesse B Lewis. Lincoln, Ohio.-Thls invention bas for its object to furnish an unproved attachment for evaporating pans by
neans of which the pan may be maie selt skimming by the use of which parer and better article may be manufacured and with less labor than whe the ordioary evaporating panc are usea.
Head block for saw Mills.-W. A. L. Kirk, Hamilton, obio.-Thls in vention has for irs object to furnish an improved device for attachment to head blocks, by means of which the sawser may convenientlv a just the
knee i" such positions that a given number of pieces of a uolform width may be cut from timber of a given thickness.
Trdoe Fire Eboa Pr Ladder.-George skinner, Brooklyn, N. Y -This in ventlon has forits object to furcish an improved truct ostansion ladder de igned espectilly for use as a fre-escape bat eqaais apsied wo wor any at the same time be light, strong, simple in construction, ant easily operated Praton Rod Paciring.-Samuel Lnrkard, Zagrange Ind.-This invention Preton.Rod Pacring.-Samuel Lnrizard, Lagrange Ind.-This invenion
elates to an improvement in packing around piston rods of steam engine and which method is adapted to other kiods of packing
Hydrant.-William Kearny, Union rownship, N. J.-This invention re
ates to ioventions in street hydrants for the sapply of water to fire enInes orfor other purposes.
Mrthod of Storing Grain.-R. M. Mitchell, Fort Athingon, Wis.-This nvention relates to a new and useful improvement in the method of storing Car brake.-G. N. Jodes, Owhesh, $W$ •s.-This invention consists in the arrangempnt of a friction pulley upon the axles of each car, to which is con-
nected by a cord a lover suitably arranged to press the brake azainst the ected by a cord a lover suitably arranged to press the brake against the
wheel, when the cord 18 wound up on the said friction palley. The friction pulleys are set into r .tary motion by the action of cordsattached to sldes at the tops of the cars, which sildes are accuated by a line shaft running from car to car, connected bvuniversaljoints between each car, whlcb sbaft is turned In either direction by levers and toothed segm - ntal wheels, gearing witb wheels on
the brakeman.
Quartz mill.-Samuel Swesey, Malta, Oblo.-This inventionrelates to a new and Improved method of crasuing and palverizing quartz tor the pur pose of separatiog the precinas metals therefrom, ado it consists in prov-
ding a suitable mill with grinding ptones, between which the quarrz is ubjecte ito a grinding process, and a'so in the manner in which the mill is constructed and the upper grinding stone is revolved and adjusted.
Row Lock.-P. H. Mills, Green's Landing, Me.-This Invention has for its ohject to tarnish an improved row lock to recelve the oar wjen rowing culling, steering, etc., and hold it securely, while a t the same time allowing it to be moved freely 10 any desire 1 direction, and which sball be so con structed as not to he liable to wear or breakage, and will work without
clotering, entirely doing a way with splitting row locks, breaking pins, and other annoyances so common with irow locse constructed in the ordinary
Valfz Grar for Oscillating Engines.-C. B. and D. B. Overton Do.
ver,N.J.-By this in inention a common reciprocating alide valve is used in an ver,N.J.-By this invention a common reciprocatiog silde valve is used in an
oscilating cyll der, the stem of the val re bring cornected wito a circular plate or disk, which has a reciprocating motion on the trunnion, which latte
has two paral el taces planed on 15 ior tne dials to travel circled by a hoop worlitng easily on it, like an eccentric hoop, the sald tioop being affixed to an eccentric rod from the crank shaft. This invention aup plies the desideratum long existing in the use of oscillating engines, and provides a valve gear which is as sim
valve gear of a fixed cylinder engine.
Nail Macine.-Dennis Savery, Wheeling, W. Va.-Tbe object of this in vention is to cause the griper to retractias speedily as possible. It consist of a $\mathbf{V}$-fhaped spring having one end aflyed to the cam end of the gripe which is opposite the griper, thas holding the end of the griper against the shaft. and by its tension actuating the griperagaivst the shat instantane ously after the cam has passed the tappet projection on the ariper.
Centrifyalal maobine.-s. s. Hepforth. Boston, Mass.-The object of this invention is to provide a centritugal machine in which tbe pernicious
effect of gyration is softened by suspending the curb and arrangiog ic so as to afford the step bearing for the shafiof the basket, thus allowing both the curb and the basket to parfake of the gyrating movempant, which movemen
is ooflened by means of an annular rutber roll running around in a fixe ir scular step, a stud afflied to a cross oeam in the curb working within the roll. Other devices pertaloing to the hanging of the basket shaft and to the accessory brake mecbanism conduce to perfect the operation of the machine
BABY WALEER.-Fred Geiser, Bristol, R. 1.-This invention consists in the
construction and arrangement of the several parts, consisting of a circular platform provided at its vertical axis with a rotating shaft supporting a platiorm pronded at its vertical axis with a rotating shaft sapporting
curved arm. at the end of which is secured a holder for supporting the child platform.

Auswers to Correpandents.


nd paoe
D. B., of Mass.-The art of making good furniture varnish cannot be given in a. limited space. For a full acconnt of the process we
refer you to Ure's Dictionary of Arts and Manufactures. A. D. M., of Conn.-Plaster molds for stereotyping should not be soaked with oil. A very little should be rubbed overthe surface be-
fore making the cast. Use as little as you can, and tonch entire surface, fore making the cast. Use as little
and the smoke will not trouble you
S. M. D., of - How can I make permanent and varnish water color drawings? First size them with a cold solution of isinglass in
water. Then varnish wito a varnigh mateof Canada Balsam 1 oz. and 9 St's water. Then varnish witt a varnigh maieof Canada Balsam 1 oz. and 9pt's
Turpe ntine, 2 oz. Mastic varnish is however the best. It can be obtained where artises materlals are sold
M. J. W., of Pa.-Is machinery used for laundry purposes in the puting of a finish upon linen. Answer, It is.
J. M. W., of Va. -The black dust used in making fire-proof mortar is the dust found about the forges of blacksmiths.
G. J. G.,of Ga.-You may discharge the air from any part of perimeter of a blower without affecting the blast, but the length of the
pipethrougb which you conduct will affect it materially. The shorter and plpethrough which yot condact will aifectian
straighter it 18, the better blast you will obtain.

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