 Hewlett, of Hempstead, N. Y.

## The Age of our Earth.

We extract the following from Agassiz's article on " Methods of Study in Natural History," in the May number of the Allantic Monthly :-
Among the astounding discoveries of modern science is that of the immense periods which have passed in the gradual formation of our earth. So vast were the cycles of time preceding even the appearance of man on the surface of our globe, that our own period seems as yesterday when compared with the epochs that have gone before it. Had we only the evidence of the deposits of rock heaped above each other in regular strata by the slow accumulation of materials, they alone would convince us of the long and slow maturing of God's work on the earth, but when we add to these the successive populations of whose life this world has been the theater, and whose remains are hidden in the rocks into which the mud or sand or soil of whatever kind on which they lived has hardened in the course of time-or the enormous chains of mountains whose upheaval divided these periods of quiet accumulation by great con-vulsions-or the changes of a different nature in the configuration of our globe, as the sinking of lands beneath the ocean, or the gradual rising of continents and islands above it-or the wearing of great river beds, or the filling of extensive water basins, till marshes first and then dry land succeeded to inland seas-or the slow growth of coral reefs, those wonderful sea-walls raised by the little ocean-architects whose own bodies furnish bqth the building stones and the cement that binds them together, and who have worked so busily during the long centuries, that there are extensive countries, mountain chains, islands, and long lines of coast consisting solely of their remains-or the countless forests that must have grown up, flourished, died and decayed, to fill the storehouses of coal that feed the fires of the human race to-day-if we consider all these records of the past, the intellect fails to grasp a chronology for which our experience furnishes no data, and the time that lies behind us seems as much an eternity to our conception as the future that stretches indefinitely before us.

The Inland Propeller Line from New York to Baltimore, connecting with the Baltimore and Ohio Railroad, make the trip through in about thirty-six hours. The line lately added two new iron steamers to their route. They are now running ten iron steamers having water-tight compartments.

Inventors and manufacturers of roller washing machines are referred to an advertisement of the Metropolitan Washing Machine Company in another column.


ISSUED FROM THE UNITED STATES PATENT OFFICE for the week ending april '29, 1862. Reported offially for the Scientitc Amertcan.
** Pamphlets giving full particulars of the mode of applying for


35,067.-Ethan Allen, of Worcester, Mass., for Improve ment in Revolving Firearms:
I claim, first. The combination of parts, m K and H , of lever, H be-
ng hang at the cock, substantially as specified and for the purpose Seorh, Inserting serew, $p$ in cock, F, in such a manner that the
Size of the notch
 tantially as specified.
5,068.-J. F. Allen, of New York City, for Improvement
In Steam Engines
Claim a cup side value, having formed in it a passape which is in-
dependent of the exhaustctap and which opens on the tace of the

 35,069.- J. F. Allen, of New York City, for Improvement I claim the employment fra a slide value. formed as spesitied, in


35,070.- John F. Allen, of New York City, for Improved Link Notion of Steam Engines:
I claim the cumbination of a single link motion, or its equivalent,
an speciifed, with one or more steam valves and one or more exhausit


 | said, |
| :--- |
| fied |
| fied |

5,071.-John F. Allen, of New York City, for Improved Valve Gear for Steam Engines
Ic cluim the combination on the value.driving lever, a, and a single
cccentric, or of their respective equivalents, when, substantially in
 , 072 S A Bailey of
,072.-S. A. Bailey, of New London, Conn., for Improvclaim the Emri leynurat of the rods a
 ruber and preventing it from turning during the operation of wring
ing, as is fully set forih.
35,073.-L. W. Beecher. of New Haven, Conn., for Improved Fruit Basket :
astenimg thing paper for baskets, instead of wood or other material ing the whoie with varnish or or ther preparation that wiil withstand
moisture, substantially as and for the purpose speciifed 35,074.-Pardon Boyden, of Sandy Creek, N. Y., for Improvement in Snow, Plows for Railroads:
C chitin the construction of the frame or body of the plow, as sel

35,075.- Albert Brown, of Mifflinsville, Pa., for Improvement in Flour Packing Machines:
I claim, tirst, The method of imparting rotary motion to the pro.



 to be readily adjustable et the stationary hopper, and securety h hold
the opening of the bag distended, substantially as shown and de
 screw propeliler over the sther so that while the oue slialil. evenged
spread the tior in advance of the other, the later shall press the titur thus spread.
35,076 . $-\mathbf{F} . \Lambda$. Brown, of Ithaca, N. Y., for Improvement in Railroad Chairs:
I lain the employmentit of the central box, C , in combination with
the chair, $A$, and supporting wedge, $D$ as as and for the purpose shown and described.
35,077.-James Budd, of Sandy Hill, N. Y., for Improve ment in Pumps
I claim, first, The two induction pipes, ${ }^{\prime \prime} Q$, in combination with
the chamber, ${ }^{\text {, provided }}$, with the valves, $G S$, and all arranged sub-


Ior the purpose set forth.
[The obiect of this invention is to obtain a punp, by which water can be drawn simultaneously from two different fountains or reser-
voirs, or drawn from either separately, as desired, and also ejected simultaneously from two difrerent nozzles or eduction pipes, or from either separately, and at the same time not involve the necessity of any complicated arrangement of parts.]
35,078.-E. F. Burrows, of Mystic River, Conn., for Improved Self-acting Brake for Railroads:
I claim the combination of the toggles, E F F , shoes, G, and rods,
 I also claim the projections, J , attached to the rods, D , in combina.
tion with the pins, T , for the purpose specified.
 and shoes, $G$, all combined and arranged as, and tor the purpose sei
forth. forth.
TThe
[The object of this invention is to obtain a brake for horserrailroad cars and other wheel vehicles, which will be self-acting, and at the
same time admit of being operated at the will of the driver, like the ordinary hand brakes in use.]
35,079.-Lysander Button and Robert Blake, of Waterford, N. Y., for Improvement in Pumps:
two piston rods, one passing through the other, combined with and
operated by the double crank, in the manner and for the purpose set
forth. 35,080.-Gardner Chilson, of Boston, Mass., for Improvement in Dampers:

 stantially as specified
35,081.-Orlando Clarke and Isaac Utter, of Rockford, Il. , for Improved Evaporat tor for Saccharine Juices:
We claim forming depressions, f, in the inclined rails, F, as describ-
edion tor the purpose of tilting the pansand holding them in that posi-
tion. ed. for
tion
Weal
en


 er described for the purpose set forth.
35,082.- J. M. Cook, of Taunton, Mass., for Improved Sig-
nal Mechanism for Locomotive Engines:
I claim the describec combination for ringing the bell by steam from
 35,083.-James M. Cooper, of Pittsburgh, Pa., for Improvement in Railroad Axles:
inder placed in, and neariv filling a space in the mais sections of a cyl
 gether the male and female axxes, , substane pathr asoescribed.
second, The use of a flan ged heod at the extremity orthe ma
 chlinders or section of cylinders, attached to the tubular part of the
temite axie for the purposes set forth. tem tile axie for the purposes set torth
Third, The use of an elastic pad insid
The solid ends of the two semi-axiles, for the themale axle or bet ween anles to yelel. slightily to lateral pressure in turning curves or tracks
of narrow fa Fourth, , hige use of a loose disk of brass or other metal placed at
the extremity of the maie axie, whether the elastic pad be nsed or the extremity of the male axle, whether the elastic pad be used or
not tr en ender he motion of the axies more easy during any lateral
pressure hereont. 35,084.-Horace Daniels, of Pawtucket, R. I., for Improvement in Machinery for Dressing Seming Thread:





35,085.-Joseph Davenport, of Massillon, Ohio, for Improvement in Springs for vehicles :-
a claim n velicle spring made up of pairs of short sections of leaves
 together at their onter
the purpose described.
35,086. -F. Denzler, of New York City, for Improvement in Toy Breech-loading Firearm:
I claim the described movabil breech piee when saidb beechpiece
is held in its place by a bavonet joint, and is removed out of the breect for the purpose of teeceivng thit charge and the percussion cap afte or the purpose of feecivl.
each discliarge of the gull.
35,087.-J. R. Dikeman and J. J. Hewlett, of Hempstead N. Y., for Improvement in Machines for Marking and Furrowing Land

 35,088-J. B. Eads, of St. Louis, Mo., for Improved Turret for War Vessels :

37,089.- Isaac Edge, of Jersey City, N. J., and C. C. Hyde, Niglit Signals: We cliim the described improvement in firing night signals, by
means of the fuminate couch, a, ired by the selfactility ruc, $c$, actil

35,090. - Jonas Farnsworth, of Lewiston, Maine, for Improved Window Washer
I claim the combination ani arr
 nd for the purpose specified
35,091.- Henry Fletcher, of London, England, for Improve
ment in Crinoline Clips : ment in Crinoline Clips:
I claim a crinhoine clip with siots or holes therein for passing the
suspend drs riroogh and couluecting the expanders thereto, substanti-
uly as described 35,092.-E. H. Funk, of Newark, Ohio, for Improved Evap orator for Saccharine Juices:
$J J$, with relation to the furnace and to each of the pans or kettles, $G$


35,093.-Lucian Gabel, of Richmond, Ind., for ImproveI claim the arrangement of a pistola and sword so as to be used jolnt
iy or separately, in the manner fully set forth and described. 35,094.-A. J. Gove, of San Francisco, Cal., for Improve-
ment in Faucets : I claim the combination of the hollow.truncated cones, A and B, and
nozzile, , the whe e being constructed, arranged a ndoperated in the
nanuer manuer substantially as speciifed, and for the purpose set forth. 35,095.-J. S. Hall, of Pittsburgh, Pa., Improvement in Breech-Loading Ordnance
I ciaim, in combination with the conical opening in the breerh of $n$
cannon, the vertical conical plug or breech biock, operating therein,
 block, the hole, ,m, in the former, and the opeming, b, in the latier for
35,096.-S. T. Holly, of Rockford, Ill., for Improvement in Harvesters:
claim the arra
claim the arrangement of the guides of the rake carringe at an
acute angle with the tine of progression of the machine, so as to carry the rake further from the divider side of the machine, as it is moved


 ism with the tramein which it it moves, by means of a pair of crossed
ievers, substantially as set forth.
 spring bolt and circular nosing, substantially as set forth.
35,097 .--Alfred Ingalls, of Indepentence, Iowa, for ImI clam, frst, The cams, $f$, in combinsion wim the faws, $\mathbf{D}$ D, at
tached to the bars, A A' and arranged in relation with the jaws, to
operate as and for the purpose specined.
Second, The key, $H$, when used in connection with the Second, The key, $H$, , when usped in connection with the bars, $A A^{\prime}$
jaws, $D$, cams, $f$, stock, $C$, and cam, $F$, as and for the purpose set
[This invention consists in the employment or use of a stationary and movable jaw fitted to a segment stock and used in connection with a cam and lever, key and bearing plate, whereby tires for wheels ma being cut and rewelded.]
35,098.-Ross Johnson, of Frederick, Md., for Improve ment in Plows
tion roller, e, or rollers, e and e', of continuous unbroken working ace, and so secured centrally and inn ciudinnallys in the work working face
of the moldboard, that sald roller
 the friction rolle rs, e
the purpose set forth.
Third. I claim the
ension, $g$, thereof and mold board, $b$, in the manner and Fourth,, claian the steady roller, $G$, in combination with the land
side a, moldboard b, plow point, $F$, and cutter, $h$, in the manner and 35,099 -G. W. Lemley, of Pavilion, N. Y., for Improve ment in Machines for Boring Seats of Buggies:
I claim a machine for boring the corner holes in buggy seats, an tor regulating and determinngg the point where and the angle at which
the said holes are to be bored, substantially as described. I allo claim a machine which possesses the capacity of regulating
and determing the place and angleof the corner holes, as well us prop
er means for determinmg the bevel of the posts in their cross section or that angle, substantially as set forth.
and determining the place and angle ans the corner holes. as well as
aroper means for determining the bevel or miter of the shoulders proper means for determining the bevel or miter of the shoulders of
the tenons on the posts forthat angle, as described.
I also claim a machine comprising proper means for laying out or I also claim a machine comprising proper means for laying out or
determining all the bevels of the posts of carriage seats, \&cc, to fit hem to any desired angle of corner or post hole, as set forth.
And, finally, I claum a machine consising of a continination of proper
Aeansto bore the corner or post hoi hes oí a carriage seat, \&c., at any meansto bore the corner or post hoi es or a carriage seat, de., at any
desired angle and to determine or inicate the bevel of the posts in
theirclosssection, and the bevel or miter of the shoulders of the tentheir c1ossseetetion, and the bevel or miter of the shoulders of the ten.
tons thereon, for that particular angle or corner or post hole, as speci-
tied.
35,100.-R. O. Lowrey, of Saratoga Springs, N. Y., for Improvement in Wind Mills
I claim, first, The arms, $H$, with termini of the construction de.
cribed, in combination with the hinging brackets, $J$, of the whing or scribed, in combination with the hinging brackets, J, of the whags or
bades, I, sulustanaituly as set torth.
Second, In combination with the arms, $H$, and brackets, J, I claim
 Third The arrangement of a sliding ruse weight constructed as de
scribed, in combinallon with the vertical shaft, A, blades, I, and clutcl
lever, D, substantialy as and for the purposes set forth. 35,101.-J. Luccöck and J. M. L. Gowdy, of Peoria, Ill., for Im movement in Churns :
lengths with the racks or or breakers, D, when coustructed, arranged
and operating as described for the purpose set fortl. 35,102.-W. J. Lyman, of East Hampton, and A. E. Lyinan,
of williamsburg, Mass., for improvement in Coffins ticle of manufacture
35,103.-William Mansfield, Jedediah Morse and H. H. Mansfield, of Canton, Mass., f or Improvement in Pro
jectiles for Ordnance, jectiles for Oran
We clitim, first, The spiral-air passages, ce. formed between two
cones, 8 ond and combining with a central air passiage, at, substantially
as and for the purpose spectifed. as and for the purpose spectifed.
Second, The ombulatianou of the exterual corical surface, f, furming
the exterior or a hollow cone and and the shoulder, g , substantially as
and for the purpose specified.
LOne object of this invention is to obtain a rotary motion of an elungated pro;ectile about its axis, by the action of the atmosphere upon it, whention consists in providng in the rear of the projectile twoor more rentir min prod piral air passages formed been cones, and commicaling ct is to insure the projectle striking on its point and to this end onther part of the invention consists in making the rear porion an teriorof the proiectile of conical form, externally as well as of lally, the exterior wurf of such shoulder over which in the flight of the projectile, the air rushes against the said surface on all sides thereof.J
35,104.-Enoch Osgood, of Boston, Mass., for Improved
Regulator Valve for Air, (ras, \&c.
han the valve to give it any desired puwer over it, wanted to close it to hold and balance any pressine that may come in between then to ure wanted in the chamber below tle value tor ure co constructed and
connected togethe to operate against each other, sulstantully as and
tor the purpose described. 35,105.-Gordon McKay, of Boston, Mass., for Improvement in Boots and Shoes: toi holding the vamp, sa id quiting being formed of chain or tambour
stitcles passing through the whole thickness of the sole, substilutially
as and for the purposes set forth. 35,106 .-S. H. Noble, of Vernon Springs, Iowa, for Improyeunent in Sled and Sleigh Runners
I erim, as a nerw articte of manuthecture, a sled or sleigh runner
formed of a castiriron crook, B, with or without the shoe, $C$ and a
straight wooden pirtion, $A$, combined or put together, substantially as hown and described.
[This invention consists in constructing a sled or sleigh runner of wood may be used for the main portion of the runner, and the cast or wood may be used for the main portion of the runner, and the cas 35,107.-J. P. Marshal, of Millbury, Mass., for Improve
 operation in the manner and for the purpose specibied.
Second, The combination of the operating lever, $H$, and movable
breech, wih the lock bolt, $J$, and trigger, $P$, substantially as and for
 uperating as and for the purpse, set forth.
Hourth, Formint the cone seat and its slield of the same piece with
the lock plate, in the namuer and for the purp ose set forth.

35,108.- H. H. Palmer, of Rockford, Ill., for Improvement in Pumps :
I claim the comburation of the water chamber, II, with the suspen.
sion rod, $K$, when arrangedandoperating as described for the purpose
set forth. sot forth. ${ }^{\text {I }}$, when suspending the water chamber from the platform, $A$, by
I also caim
means of the rods, $J$ and $K$, and guide ring, $I$, as and for the purpose
described. Ialsoc.aim the combination of the flanged standard, $B$, air vessel,
C, piston tube, $F$, piston, $G$, and water chamber, $H$, when the whole
are arra
scribed.
35,109.-John Percy, of Albany. N. Y., for Improvement in Machinery for Ginning Cotton
ollaw revolving cylinder, , D, having through its outer perinhery slo

 $35,110 .-$ H. C. Pierce, of Homer, N. Y., Improvement in Churns:
I claim, first, The arrangement of the eccentric lever, $L$, spring
atch, $M$, and ratchet plate, $N$, in combination with the wheel, $K$, pul-
 purpose described.
Second, Ialso claim the employment of the wings, $G$, in combina
tion with the disk, $D$, and holes, $H$ H, substantially as and for the pur pose se, I also claim the employment of the plate, I, or its efruivalent
Third,
in combination with the disk, D. wings, G, and holes, I, Ior the pur pose of controlling the ad
substantially as set forth.
35,111-L L. B. Prindle, of Litchfield, Conn., for Improve ment in Cups for Elevators of Flouring Mills:
cups of malleable cast iron, for the purposes set forth.
35,112.-Gelston Sanford, of New York City, for Improve
ment in Head Rests for Car Seats:
I claim an adjustable portable rest for the

1. claim an adjustable portable rest tor the head, to be attached to
the back of a car seat, and so arranged that it can be folded together 35,113.-Isaac Sherwood, of Unadilla, N. Y., for Improve ment in Water Elevator
I claim, first, A water el evator, having, in combination, the wheels,
and D2 and E , constructed and operating substantialiy a des described
Secon Second, In combination therewith the double-acting lever, $G$ and
G2H K K2, constructed and operatingsubstantially as described. 35,114. - Isaac Stead, of Philadelphia, Pa., for Improve ment in Condensing Carding Engines
the doffing cylinder, $B$, of a condensing carding engine, as forming
 toothed cylinder, I, for the prupose of removing the fibers witich may
collect on the the that and caryiug them bick to the main cylinder, as
described in spectication. 35;115.-E. M. Stevens, of Boston, Mass., for Improved Clothes Wringer
I claim, first, The jointe
h h substantially as set forth and, for F , pre obided with specilied.
Second, Making the core, $W$, of the rolls fluted and fitting into the Hates, cylinders of rubber, r, surrounded by a rubber tubing, $R$, sub
fut Third, The combination and arrangement of the lever, $K$, self.ad
usting foot, $N$, and thumb screw, $M$, substantially as described and
35,116.-A. Steward, of Plano, Ill., for Improvement in
Stationary Counter Scissors: Stationary Counter Scissors
I claim stationary scissors, hung and scribed.
I claim, also, in combination therewith, a measure so arranged that
the cutting blades shall operate at one extremity thereof, as described. 35,117.-N. W. Taylor and J. W. Brightman, of Cleveland, Ohio, for tnp:ovement in Machines for Drying Sized Paper
We claim, first, The described construction of a drier, consisting of
an inclosed chamber, provlded with suitable openings, for the purposes specified, and which can be closed at pleasure, and having
within said chamber the bearing rollers placed in horizn tal rows, and the successive sets so arranged in relation to each other and the points
of introduction tor the paper and the heated air. that the paper will
pass continually from m moist to a dry and heated aumosphere, as and or the purpose specified.
Second, We claiun movi
Sittes, for the purpose set fort
Third, W
Third, We claim the pla
for the purpose described.
5,118.--Thomas Tripp, of Amsterdam, N. Y, for ImI proved Water Wheels: as aplied to water wheels.
Second. The extension of the lower middle point of the main buck
ts, C C, Fig. 1, at the point 1 , so as to receive the inclined auxiliar ets, C C, Fig. 1, at the point 1, so as to recelve the
bunkest, as representev.
Third, The curvature of the inner bottom edges of the main buck ets, as represented in Fig. 1 hy the red dotted lines.
Fourth, The curved and V-like shape of the inclined auxliary buck Fourth, The curved
ets water wheels, as represented by b b b b, Fig. 2 o
Fifthe The scallop ontom of concave of the lower edges of the
the inclined antiliary buckets, as applied to water wheels-the difer the inclined antulity buckets, as applied to water wheels-the differ
ent curves of the parts of the whel being arcs of the same circle as
the circumference of the entire wheel She circumference of the entire wheel.
Sixth, Inclined.-cured auxiliary buckets. attached to curved or coni-
cavo-convex main buckets, conforming to the curvature of said main
buckets.
$35,119 .-G e o r g e ~ T u r n e r, ~ o f ~ C a m b r i d g e, ~ O h i o, ~ f o r ~ I m ~$ provement in Corn Shellers:
large end, and closer together, as they approach we small end, so ar anged and operated that the ear of corn shath tirst be received at the th
arge end of said cylinder, and pass toward the small end in process
 35,120.-Amos Westcott, of Syracuse, N. Y., for Improvement in Churns:

 to force the particles of butter, whether large or small, which may be
foating in the fluid, toward a vertical plane in the box of the churn, parallel to its ends.
I also claim the
I also claim the employment of the fan wheel, Figs. 3 and 4 , con
structed essentially a a and for the purposes set forth, in combination
with the other parts of the churn, as described. 34,121.-D. H. Whittemore, of Worecster, Mass., for Im provement in Straw Cutters:
I claim, first, So arranging twe cylinders together that the peripher of one shall move faster than that of the other, and at some point be
tween them the knife or knives upon one hali move past the knife or knives, or propections upn the other cylinder, in such a manner tha
both a shear cut and self-feeding operation shall be prodnced therely Second. I Icaim arranging wo ocylinders together, in such a manner
hat their relative position with the feed in the hopper can be changed that their relative position with the feed in the hopper can be changed
for the punpose of varying the length of the feed cut, or so placin
them tupon the frame that the line of center of the two cylinders will not the at right angles: with the bottom of the hopper, as repsesented
 35,122 .-I. A Williams, of Utica, N.Y., for Improvement in Locomotive Lamps I claim the perforated cvlinders, E F, one or more. in combination
with the capor detector, G, and hollow wick tube, C , arranged sub
stan tially as and for the purpose specified.


35,123.-Lorenzo Winslow, of Rochester, New York, for claim the arrangement
spring, $S$, in relation to the notched shank, A, the whole operating in
the manner and for the purpose, substantially as set forth. 35,124.-D. T. Yeakel, of Lafayette, Ind., for Improvement in Mode of Construating Ordnance:
I claim the use of plate or sheet iron or steel, in the manufacture or construction of large iron or steel cylinders, by winding the plate or
sheet iron or steel (the plate or sheet being in widthequal to the desired length of the cylinder) around a central mandrel, until by repated
continuous layers the 1 ntended size is produced, and after the first
layer around the cential mandrel (which may or may not be wedded aver around the cential mandrel (which may or may not be wedded
to the mandrel) eanh part of the plate, or sheet of iron or steel st
wound to be welded to the part immediately under it. wound to be welded to the part immediately under it.
35,125.-D. C. Lawrence, of Cedar Falls, Iowa, for Im provement in Spring Balances :
I claim a spring balance, made of a single piece of wire, substan
tially in the manner and for the purpose set forth.
35,126.-E. L. Pratt, of Philadelphia, Pa., assignor to J Thread Tension of Sewing, Machines :
I claim so combining and arranging the tension devices which oper-
ate upon the threads used in a sewing machine which mhakes the
double chain or Grever \& Baker stitch that a relative, or any degivad double chain or Grever \& Baker stitch that a relative, or any desivad
relative proportion of the whole tension upon the threads in made
to be automatically operative upon each thread, and so maintaided
when whe automatically operative upon each thread, and so maintaine
when the total tension on the threas is increased or dinminished, seid
rrangement and combination being such that charges in the amount arrangement and combination being such that charges in the amoun
of the tension may be made with facility, substantially as des cribed.
35,127.-Coleman Sellers (assignor to William Sellers \&
Co.), of Philadelphia, Pa., for Improvement in Wheel Co.), of Philadelphia, Pa., for Improvement in Whee I claim the use of an adjustable upright, $H$, or its equivalent, suk-
tantially in the mannerand for the purpose specified. The hinged attachment of the blocking piece, $N$, or its equivalent, to
the forcing-up plunger, substantially in the manner and for the purpose specified. himself and Philip S. Justice, for Improvement in Laying Telegraphic Cables.
I claim the partial supporting of the telegraphic cable, while paying
out, ,y means of an additional cable, when connected with friction
clutches, as described. 35,129-H. D. Stover of New York City, and W. W. W. Wood, of Philadelphia, Pa., assignor to said H. D. Stover, for improved Shutters for the Pers, We claim, first, The construction and arrangement of shields or
armor to the portholes of war vessels or tloating batteries, substan tially as shown anl1 described, by forming twoor more plane or curved
plates impenetrable to shot, and arranged at such angles in relation
to each other, raut to the side walls of said vessel or hattery, as to inas set forth.
Second, In combination with Emovable shields, operating as de scribed, we claim the convex-shaned or ansular blocks, arranged to
close the top opening between he shields and side walls, and to hold
the said shields, when closed, at their requisite angles, substantially as shown and described.
Third, Inc combinition with such movable shields, closing automati-
cally or otherwise, in the manner described, we claim so forming corcally or otherwise, in the manner described, we claim so forming cor-
responding recesses to the inner edges of the shields. as that the
shields, by closing against the gun, shall leave a vertical space, suffiiently harrow or 55,130 . Vand
to -Samuel Vanstone, of Providence, R. I., assignor in Machines for Cutting Files. I claim the two disk cylinders, operating simultaneously upon the
two sides of the blank, in combination with the peculiar construction two sides of the blank, in combination with the peculiar construction
of the disk eylinders, substantially as described, for the :urpose
specified. 35,131.-J. H. and A. E. Redstone (assignor to themselves and James M. Ray), of Indianapolis, Ind., for Im-
provement for Changing a Rotary intoa Reciprocating Motion
We clatim the combination, in the manner described, of the groove,
$C$, slot, $D$, and slide, $A$, when operated, substantially as set forth.
1,304.-J. E. Ėmerson, of Trenton, N. J., for Improve ment in Mode of Fastening Tools to their Handles.
Patented March 29, 1859. I claim, ffrst, The useof picks, axes, or other analogous tools with.
ut eyes therein, when the same are astened to a handle by means of
 gons tool. claim the key or wedge, when the same is used transversely
To the tod Iool for attaching picks, axes, or other analogous tools to
handles. 1,305.-S. S. White, of Philadelphia, Pa., for Improvement
in the Manufacture of Artiticial Teeth. Patented January 1,1862. I claim the manufacture of mineral teeth, with pin
d , at cherr outer ends, substantially as specified.
1,568.-C. H. Frost, of Peekskill, N. Y., for Design for a Cook's Stove.
1,569.-W. H. Green and P. J. Clark (assignor to S. S. 1,570.-N. P. Maker, of Pawtucket, R. I., for Design for a
1,571.-J. B. Sargent, of New Britain, Conn., for Design for a Coffin Handle.

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