## NEW INVENTION8.

The following are some of the most prominent of the patents issued this week, with the names of the patentees :-
threading sewing-maobine Nredles.-M. B. Footr, Northampton, Mass.-This invention relates to an extrem:ly useful implement for the threading of sewing.machine needles, whercby
rapldty. rapldity.
Street lantrrn.-A. R.and E. A. Henry, Newark, N. J.This invention consists in forming the supporting frame of a street lantern, for the glass, of cast-iron, and in such a manner that the several parts of the same can bc either secured together be sufficiently firm and strong for all practical purposes.

Ventilator and Pump.-J. W. Foard, San Francisco, Cal.This instrument is for the production oi a partial vacuum by means or a current of air being passed through it, and whereby air or water, as the case may be, may be raised as by means of a suction pump, this instrument constituting a ventilator for the ventilation of shlps and other like vessels, chimnegs, hou mincs and other pla ces, as also a pump for Ta sing weter.
Stovepipe Elbow.-James Wilson, Wilmington, Del.-This invention has for its object to farnish an improved stoveplpe elbow, which when choked up by burnidg soft coalor oftrer soot
producing fuel, can be readily cleaned and the soot romoved.
Rotary Cuting Maceine.-J. J. Butler, Cincinnati, Ohio. -Theobject of this invention is to so constract annachine thizt disks ofany material may be rapidly cut in the same.
Ping.-R.J. Nunn, Savannah, Ga.-The object of this invention is to construct a pin for securing together parts of garments and other aricies in such manner that it will not be so llade to casually slip out of place as the ordinary style of pins.

Forge Rolling Machine.-Hugh Baines, Manchester, En gland.-This invention consists of a verforated movable table and two or more hollow and perforated rollers, having sec tioual perforated and engra ed rings fitting around the same ${ }^{-}$ These ringsarc made so as to be easily removed and changed, to engraved, cast or otherwise properly secured upon the rings. Therollers and table are supported by a strong and suitable frame, and worked by reversible gearing or straps.
Combined leyber Plining, Sawing, and Tonguing and Grooving Machink.-Otis Bridgeman, Steuben, N. Y.-This invention consists in combining in one and the same machine, a revolving cutter head for planing, a circular saw for sawing, and suitable revolving cutter heads for tonguing and grooving, in such manner, and in suct positions with regard to each other that by properly feeding the lumber into the machine at one end, will be in turn subjected to the getion of 埌e respective parte or the same, one after another, in the order above mentioned, so trat when it passes out of the machine at the opposite end, the
board will have been plaacd, sawed. tongued upon onc edge and board will have been planed, sawed. tongued up
grooved upon the other, and tbus ready for use.
Artifical Breabts.-Jobn Stadermann, New York City, and Henry Sacerbier, Newark, N.J.-Thistovention conststs in constructing artificial breasts out of wire cloth or wire gauze, swaged or struck up by dies, or other sultabte means, in su ha manner that the two brcasts will form projections on one and
the same plece of wire cloth made to conform to the chest of the wearer.
Drying Apparatub.-G.D. Jones, New York City.-This invention relates to a Dev and improved apparatus or device for drying substances, and is more especially designed for drying earthy materials used in the arts which are ground in water or as whiting, clay, etc.
Cotton Gin.-F. M. Momeerin, Morrison's Mills. Florida.This inventior relates to a new and useful improvement in that class of cotton gins in whichrollers are employ ed for separatiog the lint or fiber from the seed, and which are commonly termed rollergins," and has for its object the thorough and rapid sep aration of the lint or tiber from the seed without injuring or reak ng the former.
Head Block for Sawmille.-B. F. McKinley, Cincinnati Ohio.-This invention relates to a new and improved head block for sawmills, and it consists in a nove means emp oyed for operating or moving the knee, whereby the $\log$ is set to he saw, andby which the log may be set with accuracy and so as to
cause the log to be sawed Intoboards or planks of varying thick cause the $\log$ to be sawe
nesses, as may required.

Leveling or Grading Inbtrument.-S. L. Donnelle, Spring Creek, Tenn.-This juvention relates to improvements in a leveling
or grading iustrument, aud secure 1 to by Letters Patent bearing date September, 11, A. D. 1860 . and $t$ consists in a novel arrange. ment and construction of the leveling or grading instrument Fhereby simplicity and efficiency are secured and the instrument also susceptible of a much easier and a more ready adjustment o its several parts, as may be desired or foundfnecesesry.
Baingo Press.-G. D. Howe, Lewleport, Ky.-This invention has for its object to furnish a baling press by means of which two bales may be pressed atthe same time, and which may be built and operated in a less space than is required for the presses now

CirodlarSaw Mill.-J. a. Holford, Guionstille Ind.-This invention relate to cerfain improvements in circular saw mills, $y$ which the whole machine will work automatically in all its parta, and by which a log when placed upon the carriage, is cut nto boards of the requisite thickness without requiring the easi attention fromany man.
Stump Extraotor.-N. M. Healy, Flnsh'ng Mich.-This invention consists in so arranging an upright hoisting bar and ropes that a very great uifing power aball be imparted to the
bar, thereby enabling one to
a cheap and simple manzer.
Spring Toy.-Join h. Brown, New Yoris City.-This inven tion relates to a spring by which is opat by means of spiral or tension spring in contradistinction to the colled spring cord whe winds on a drum provide! with a ratchet wheel and pawl in such a manner that by turning said druin the teen and the spriny can be regulated at pleasure. The opposite end of the the sprink can be regulated at pleasure. The opposite end of the
spring connect; to a lever which is rigidly attached to the body of the horse, and which is provided with two or more holes to recelve the spring in such a manner that by clanging the point of connection between sail spring an lever the leverage of the spring can be accommodated to the greater or smaller welght of spring can be accommodated to the greater or smaller welght of
the child occupying the toy. By the use of said lever the hind legs are relieved from all strain, and a strong and durable toy ohtained.
Grinding Mill.-John M. Miller, Hamilton, Ohio-This invention consists in the arrangement of a suction blower in com and with a sitable riceiver in tuch manner that by the action, of said suction blower the drt , flower, vapor, and hot air created by the action of the grinders are removed a $d$ the grind. ers enabled to work free and without danger of heating. Suitable sildes in the case serve to regulite the power of the draft create by the suction blower, and the recelviug box into which the dust vapor, etc., are driven, is provided with an escape opening for the wind.
Cast-iron Chain Pulley.-James Bird, New York City. The object of this invention is to constract chain pulleys in such a way that t'ley will be more enduring and better able to resist the wear to which they are subjected.

Twerr Tron.-T. E. C. Brinle p, Louisville, Ky.-Thisinvention consigts in the combination of hooks secured to the cap of a tweer Iron with lugs or ears secured to the side of the body or chamber or the tweer so $t$ at the cap may be readily removed in
order that access may be had to the interior of the air chamber order that access may be had to the interior of the air chamber for the parpose of removing the cinders that may have collected

Brice Maohine.-William C. Bartol, Huntíngdon, Pa.-This invention consists in an mproved briek machine so constructed and arranged that the empty molds may be raised automatically from the lower to the upper part of the machine and lowered, passed beneath the hopper, flled, and pas ell out upon shelves at the other end of the machine ready for removal to the drying theor, while the machine is bei
Sled Brake.-R. B. Duttox, iron Hill, Iowa.-This invention consistsprincipally in the corubination and arrangement of the joisted dog clasp, lever, fulcrum rod, ratchetbar, and spring with each other and with the rave and runner of the sled.

Jrwrling Watches.-A. C. Crobby, Union, Pa.-This inven Hon Is designed to rintate by avoiding the comparatively tedious burnishing operation and forming the burr over thejewelata single operation.
braceb for Wagon Springs.-Jambe H. Lookie, Humphrey, N. Y.-This invention has for its object to prevent the backward and forward swaying and the conseque
of wagon, carriage, and buggy springs.
Roll Carding Machine.-George Brooz, Corydon, Ind.This invention principally consists in the simplicity and novelty of the feed works, they being so constructed a to be nearly automatic in their operation of spreading and feeding the wool from the apron to the machine, and to require but lititle aid or assitance.
Propelling Horge.-John H. Brown, New York City.-Thi invention relates to a propaling horse, the front wheel of which $i^{8}$ placed out of the center so that by its action the cantering
motion of a horsc is imitated. The hind wheels are rigidly at tached to a double crank shaft and the cranks connect with two hand levers in such a manner that by the action of each hand lever the tractive power or both wheels is utilized aud the horse can be propelled witin considerable spzed. The hand levers pass through the body of the horse, which also incloses the connecting rods and cranks, so that the propalling mechanism does not in terfere with the chll i's limbs or clothes.
Wabitng Maceine.-E. Beckwith, Smith Pass, ill.-The objec of this invention is to provide a machine by whicin abrics may be wastre

Manner of attageing handles to Teapots and otere essels.-John H. Brown, New York City.-This invention ha forls object the attachment of handles o teapots or other vessel fieely turne:l on its bearings, while the pot is standing, bui as soon as suspented on the handie it will not be able to swing free.

Circular Sawing Maohine.-Lewis Fobsee, Jeffersonville, nd.-This inve .tion consist, in devices to operate in connection with a circular saw forsa wing plauk with beveled edges or with curved edses or sides when required, as well as straight edges ards yards or edging plank of all kiads, and sawing in curved lines the circular-saw table
Oil Can.-William C. Neweire, Piqua, Ohio.-This Invention ndist in constructing an ofl can in such a manner that coal of withoneroils or liquids of like nature can be handled and used the ofl can is placed, as is almost invariably the case with the common oil can.
orget.-Mre. Clementine D. Rutberford, Brooklyn, N. y The object of the present invention is to so construct and form ecorset, that while sufficient support is imparted by it to the comfortable and cool to tho by whom it is worn, ly adapted for use during the summer season.
Cork Planter.-J G. Walkingeaw, Leavenworth, Kansas.
This invention relates to Improvements in the conatruction of
an implement for planting corn, and consists of devices fordroppingthe coria evenly in hills at regular distances apart, in connection with an arrangement for dropping at tie same time either a planting beans with cora.
Spring bottom for Seats, eto.-Wm. J. Habwell, Waverly, N. Y.-Tbis invention relates to a ljedstead or other frame, the s:de and end pleces of which are slotted and provided with a which of rollers. Over these rollers are drawn a series of straps suitable flexible their upper ends with a piece of cinvas or other retained by rods which extend along the lower edges of the side and end pieces of the bedstead, being retaiaed by suitable buttons. By these means a bottom for beds, chairs, sofas, etc., is ob. tained, the tension of which can be easily regulated, and which is free to accommodate itself to the form of the body.
Stram Valve.-G. G. Hent, Bridgeport, Conn.-This invention has for its object the co a ruction of a valve in such a manner of steam to the c:llnder of an engine, and admit of the governor operating perfectly to regulate the admission oi steam, when applied to an eng ne of any size and power.
roal Souttle.-Edgar Eltinge, King:ton, N. Y.-Thia invention relates to animprovement tu the construction of coal scuttles, and it consists substantially in providiag them with self tend over and outside the edges of the their sies, sa for the purpo e of controlling and guiding che cosl ar deser contents of the scuttles to the place of dish rge preventing it from pa sing over the et ies of the acuttles. The covers or sifids are hinged to eare which also hold the euds of the bails.
Water weter.-samurl Hices, Orangeville, Ind.-This idvention relates to a new and useful improvement in that class of water wheels which are placed on a vertical shaft, and are com monly termed horizontal water wheels. The invention consists in a arranging said parts within a penstock, whereby a very simple, out a large out a ate favorably in back water
School and family Slate.-John H. French, Geddeb, n. y. -Thisis invention relates to a slate, the frame of which is made in two compartments, one of which contains a slate, while the other is so constructed as to admit of the insertion of any convenient number of cards of pasteboard, paper or other materlal, upon which are printed, drawn, pain ed, or photographed lessons or copies for riilting, printing, marking, or drawing, and exercises in arithmetic, elther, any, or all combincd in such a manner that the pupilis c nabled to copy the lessons npon the slate in the other part of the frame below, and that he has a great variety ofexerleseson is materially faclitated by Torizontal perpendicuing the lose lines, permanently pressed, drawn, marked, slope lines, permanently pressed, drawn, marked, stamped surfaces of $t: e$ slate as gulde lines, whereby the pupil is enebled to uake his lett:rs, figure, or drawings of the proper proportion ate higuts, widths, and slope.
Self-regulating Tension.-Theodore Zinok, New York City.-This inventioa relates to a tension, which is appil cable to the thread of sewing machines or to ropes, tele graph cables, or other strands which are wound off from a bobb:n, and the tensi on of which io to be kept as nearly
as possible uniform. Said tension consists of a friction spring as possible uniform. Said tension consists of a friction spring nowound in combination with an a-m which is secured to the spring, and over which the thread or strand passes, in such a manner that whenever, from any cause whatever, the tension of said strand increses, the friction spring is forced bensin the bobbin is rclieved, and by those means the tension is equalized and rendered self-regulatiug.

Pibton Paoking.-Bareer Lcwe, Fall Rjver, Mass.-This in vention relates to a piston packing in which a spiral spring is used, which is beveled off from the centeritoward both cnds, so tha the operation of inserting the spring in its place is facilitated The rings which surround the spring are so formed that they in case the head and follower of the piston, and they are provided withaninternalflange which issurfaced to the inner surface o the head or follower, in such a manncr that the escap: of steam is pre-ented, and the head and follower are not allowed to come in contact with the cylinder.

## Busintss and eersoual

D. W. Johnson, 469 Broadway, wishes a good sec ond hand hydraulic press, of three to four hnndred , uns.
J. J. Detwiller, Easton, Pa., wants market for large quantities of kaolin or chiua clay.
V. H. Lyon, Plainfield, Ind., wishes to obtain one of Powell \& Lealand's Microscopes, describedin Vol. 12 Sciem tific American.
Information upon enameling castiron is requested by Jno. B. Overton, Frederick, Md.
J. E. Treat, Oxford, Mich., wants to become an en. graver; wants to pat himself under the instructions of an en graver; wants the address of all glyphographic engravers; also wants the address of all engravers generally.
Where he can learn Scientific farming is asked by J. E. Peaslee, Dover, N. H.
W. S. T. wants to purchase the best Peat Machine. and thinks that if ownera of such machines would advertige in the Scientific Amprions, they wou'd find it to their advan tage.
Makers of Morrison's Shingle Machine, please ad. dress, H. P. Gulford, Reading, Mass.

Device for Clearing Stubble from Plows.

In using the ordinary plow, especially on stubble fields, or in heavy grass land, the angle between the colter and beam frequently becomes choked to such an extent as to raise the share from its proper depth, and necessitate stopping the team and removing the obstacle by hand. In the accompanying engraving there is represented a very simple contrivance de signed to remedy this difficulty.

In the guide wheel is placed a stud or pin, which forms a crank, and to this pin is pivoted the end of a rod of iron, which is carried along under the beam and around the lug of the share to the colter, as seen in the engraving. As the guide wheel rotates, a reciprocating with a vertical motion is given to this vibrating rod, so that as the rod advances to the front of the colter edge it pushes the stubble from the blade and throws it down into the furrow.

Patented through the Scientific Amcrican Patent Agency, Septcmber 25, 1866, by William Veber, Jr., Shingle Creek, St. Lawrence Co., New York, whom address for further facts.

## Device for Lubricating Axles of Vehicles.

This engraving represents a new device for ap plying oil to the axles of vehicles, without the usual troublesome and laborious operation of taking off the wheels. It is very simple and effective, accomplishing the delivery of the lubricating material upon the axle as certainly as if the wheels were removed. A vehicle provided with it can be lubricated in two minutes' time, by a single person, whether standing in the sled or on the road. It saves oil as well as labor and time, and it renders the process of oiling a ${ }^{\bullet}$ wagon neat and clean, and vehicles provided with it will doubtless be oiled much oftener, and wear much longer for that reason. A represents the hub of a carriage with the lubricating appraratus inserted, showing only the cap; $B$ represents a section of the apparatus itself, which is sccared to its place by the screw thread, $C$. To lubricate a vehicle, the cap and piston, $D$, is unscrewed and removed, and the oil introduced through the tube, which is of the same diameter in side the whole length except just at the bottom, where it is finished like a valve seat. The cap and piston is then replaced and screwed fast, which presses the lower part of the piston tight against the bottom of the tube, preventing the oil in the axle-box from returning. As frequently the oil is thick (being congealed by coldand other causes), the lower part of the piston is made to fit the tube exactly, and when the oil is placed in the tube, the replacing of the piston and cap will always force the oil through the hub and deliver it on the axle. This improvement can be easily applied to any vehicle, old or new, and would not weaken or disfigure any wheel, even of the finest carriage ; and, being of very moderate cost, will doubtless prove popular.
It was patented November 27th, 1866. Rights are for sale. For further information, address the Patentee, Geo. W. Parsons, 424 Market St., Harrisburg, Pa.

## LIfe of Steel and Iron Ralls.

An examination of the steel rails laid down two years and a half since in the Woodhead tunnel of the Manchester, Sheffield and Lincolnshire railway, resulted in a striking illustation of the relative enruranes of steel and iron rails. Thic: funnel is aboat
three miles long, with a station at each end, where things, heart-burn, loss of appetite, nervous affec trains generally stop, and where the wear of the rails is extraordinary, from the starting of heavy trains with the aid of sand on iron constantly wet with drippings from the roof. The life of an iron rail at these stations was but about five manths on one head, and three or four months on the other after turning. The new rails are 75 lbs . Bessemer steel, double-headed, $2 \frac{1}{2}$ inch face, $\frac{5}{8}$ inch stem, and 5 inches deep. Rails were taken out at the places f greatest wear, at each end of the tunnel, and on being carefully measured and compared with the


## -VEBER'S COLTER CLEARER.

original templates from which they were made, were
found to have lost as nearly as possible one-cighth of an inch in. the thirty months' use under at 'least $8,000,000$ tuns of traffic as computed from the books of the station. The rails were in admirable condition, and good for five times as much further wear, both heads together ; making, in insurance phrase, an "expectation of life," equal to fifteen years, or twoenty times as long as that of iron.

## Coffee and its Idulterations.

The report ot the Internal Revenue Commission shows that the usual yearly consumption of coffee in the United States has been about 200 millions of pounds. Allowing the small modicum of one quarter of a pound per week to each person using coffee, it is seen that the number of coffee-drinkers in the wholc country can hardly exceed fifteen millions, or less than onc half the population. But the consumption of coffec in the four years, 1862-5, averaged only half the usual amount, owing, in great part, to the extensive adulteration compelled by the war prices. Chiccory root, peas and rye, are familiar ingredients of artificial coffee; burnt bread.crust is


## PARSONS'S DEVICE FOR LUBRICATING AXLES.

also a well-known domestic substitute, and the Revenue Commission has revealed the important fact that all kinds of spoiled, condemned, and refuse bread, and especially the surplus stock of stale black bread brought ashore by emigrants from Europe, supply a favorite material for adulterating both coffee and black pepper. Unmerchantable or very inferior sugar and molasses are also collected and reduced to caramel for the purpose of coloring the adulterations of coffec. These de-appetizing considerations will probably send the consumers of ground coffee in a rush to the hardware stores where hand coffee-mills are sold. The properties of the grand ingredient, chiccory, if understood according to the medical authorities, would lend additional impulse to the hand-coffec-mill trade. Prof. Johnston eays that its prolonged use protuces among other
tions, constipation with intermittent diarrhea. A writer in the Journal of Mcteria Medica, gives observations showing its decidedly aperient effect ; for which, in fact, it is in domestic use in France and Germany. This tendency, in connection with the presence of cholera, and in view of the free and uni versal use of the chiccory-coffee among the poorer classes, seems to deserve the careful attention of the sanitary authorities.

## Practical Fints.

To Clean a Fodl Gun. -I hand you the following as a reliable factthe reason $I$ leave to others. In hunting, a gun often becomes foul from use, and the exploding of a cap will fail to ignite the powder. With a knife sharpen a piece of dry pine wood-or common match wood will answer drive the splint right into the nipple of the gun, cut off the bruised part of the wood even with the top of the nipple; put on a cap, and it will not fail to explode the gun. Any one wishing can test this by putting a little powder in his gun, then driving snugly the plug-it will go every time. For a reason.

Quien SAbe.
WELLINGTON'S PA'TENT WATER CLOSET.
"Modern Improvements" comprehend all appliances that tend to the convenience and advantage of

man. Among these is the water closet in dwellings and offices. The one herewith illustrated scems to be admirably adapted, from its simplicity, to security against injury, unfailing operation, cleanliness, and freedom from noxious effluvia.
The cup, A, can be raised or lowered to adjust it to any hight by a set screw, not shown, in the projection, $B$, and the pull lengthened or shortened by adjusting the bolt in the slot of the weight, C. The stop, $D$, prevents turning the pan more than 90 degrees, sufficient to entirely empty it. The water is introduced through the pipe and valve, E , shown as disconnected with the bowl pipe, F. The valve is always, in this closet, directly under the seat and in front, so that it can be reached for repairs without disturbing the wood-work and without disconnecting the supply pipes. No water stands in the pipe between the valve and the bowl, as, imnediately after using, the water runs into the receiving pan. The drippings from the couplings also all find their way to the same receptacle, so that there can be no disarrangement of the parts in moving, nor any annoyances from leakage in use. The manufacturers make every part in duplicate, and when repairs are needed, parts can be readily obtained which absolutely fit.
Patented Nov. 15, 1859. Hayden, Gere \& Co., 84 Beekman street. New York, are the manufacturers, to whom orders should be addressed. Dalton \& Ingersoll, 19 Union swreet, Boston, Mass., can furnish the clcoet.

