60,969.-Hoop Skirt.-Hunneville Vincent, New York City, asyegror to Hugh B. Brown, Brooklyn, N. Y.

60,970.-Door Lock.-Rudolph Vollschwitz (assignor to himself and J. J. Schlaepfer), New York City
 60,971 - GraNARY.- James Walsh, Valley Town, Ill.

 Second I claim the with
boring holes simultantou
for the purpose specifed
0,973 .-Mechanism for Operating Dies.-Hervey Waters, 1 claim the

 mer of.
$60,974 .-$ Lock and Key.-H. B. Weaver, Hartford, Conn.
 Second, Purposembina tion of torth ib ove and the fence, k ', the whole being
and

 60,975. - Rectifier For Stillis.-A. Werne, New York City.
 for the purpose herein sbownand descrived.
 60,976.-Cultivating Hops.-E. A. Wightman and W. C. We claim the sliding rod, B, arranied N. Yith the poles, A, as shown, adapted
to be drawn therefrom when desired, substanually as represented and de-60,977.-Corn Husker.-J. F. Winchell, Springfield, Ohio, assignor to himself and George C. Steele.
I claim the corrn husker, consisting or the metal plate, A, and the strap, B,
made anjustable in size, when constructed and arranged as herein shown 60,978 .-Chair.-G. C. Winchester and M. V. B. Howe (as
 Also combining with inch arrangement or tonstruation the ering, i, fixed
to the bar and bearing against the rear part of the Beat, subetantially as shown
and described. Also the combining of the ratchet bar, pawl plate, shaft, and cam, when
arrangen to lock the seat in horizontal or inclined position, substantially as
set forth. set forth.
Anto, forming each side rail, f, and its le le, p, from a single strip of wood
bent into shape, substantially as shown a ad fescribed. 60,979.-Construction of Ordnance.-W. E. Woodbridge, Little Falls, N. Y.

 Third, I also claim the application of the mode of construction hereir de-
scribed, to tubes other than cannon, when the mechanical requirements are
similar. 60,980.-Bridle Bit.-L. D. Woodmansee, Dayton, Ohio: I claim the combination of the ripid bars, A and B, jointed directly to the
moth piece of abricie bit, and operating in the manner substantially as and
tor the purpose described. $\mathbf{6 0}, 981$.-Grates.-Charles J. Woolson, Cleveland, Ohio. I claim the tipping frame A, provided with Journals and bearinge, B, in
combration with the shackle or grate bar, D , arms, E , and link, O , and du plicate bearings, S.
$\mathbf{6 0}, 982$.-CuLTritor Plow.-S. A. Wray, Greenfield, Ind. I'claim the combination of the beam, B and B', elastic plate, D, and hinge
joint, , with a dive for retaining the beam in position, substantlally in the
manner set forth. 60,983.-W Wter Wheel.-Anthony Wrealsh and William Burns, Springfield, Ohio




 60,984.-Composition of Glue or Gelatlate and other
Materials called Durogel - Henry Wurtz New York City.
I claim the combination of bichromate of potash with ordinary glue or gela.
tine, in the nanner and for the purpose substantially as described in the fore-
going specilcation. 60,985 .-Hollow AUGER.-Emanuel Young, Amanda, Ohio
 60,986.-Imponderable Fluid and Mode of Generating THE SAME.-Nartin Ziegler, Mulhouse, France



## RE-ISSUES.

2,430-Process for Purifying Meitallic Oxides.-Alfred Monnier, Philadelphia, Pa. Patented March 21, 1865 .
I clalm the treatment of metallic oxidesfor their purification, substantial as herein set frocth.
2,431--Refining Hydro-carbon Oils and Utilizing Waste Products Therimerom.-Henry Pemberton
Alleghany City, Pa. Patented Aug. 2 is Alleghany City, Pa. Patented Aug. 2, 1859.




 2,432.-Drying Apparatus.-Edward Y. Robbins, Cincin-
nati, Ohio, assignee by mesne assignments of himself. nati, Ohio, assignee by mesne assignments of himself
Patented July 19, 1864 .


 2,433.-Lap Joint.-Henry Und

Patented Feb. 9, 1858.
 he parposes described. 2,434.-Machine for Making Nuts.-William E. Ward, Port Chester, N. Y. Patented Oct. 7, 1856.






 2,435.-Heating Stove. - William A. Barlow, Elkhorn Wis. Patented June 3,1862 .
 Tereinspecified.
Ialso claim the combination
 the purposes herein set forth,
Incomber Ination withthe also claim the dithinding plates, a a, sub
stantially as and for the purpose herein described. 2,436--Heating Stove. - William A. Barlow, Elkhorn Wis. Patented June 3, 1862 .

 top to the base of the stove, outside of the stove body, substantially as and
for the purpose herein set forth. 2,437-CAPstan For Steam Boats.-John Schaffer, St Louis, Mo. Patented Oct. 21, 1856.

 2,438.-Rake for Harvester.-C. Aultman, Canton, Ohio assignee by mesne assignments of S. A. Lindsay. Pat
ented Dec. 11,1860 .







 Tenth, A standard or support, which sustains the sweep rake above the
drantmame driving wheelsthereof, said s andard or support beingmounted
on the hinned platiorm.






,439.-Harvester.-C. Aultman, Canton, Ohio, assignee by
2, 1859 .
First, I Claim an automatic rake, delivering the grain in the arc of a
rcie in combination with a han ned platorm.
Second,The combination of a revolving rakeand reel, and a hinged platform. Third, The combination of a revolving rake and reel, and a hinged platform
Therm suppended from the of main revolving rake and reel, with a hinged plat Fourth, In a harvester, having a revolving rake and reel, I clasm suspend
in the hinged plattorm to the main frame at one or more points betw een the
ariving wheels.


 Gighta, The boxes or boarings, K, K, for carrying the pivoted radial arms in
oobination with the central revolving hub
Ninth, The combination of a revol hing rake and reel, a vibrating frame or

 of the rake to the platform in passing over aneven ground.
Twifth, The combination of aquadrant platform, a hinged finger beam,



$\qquad$
 Third, These euteret, 1 , operated by the treadle, $n$, and arranged and applied
Four Tor the purpose get for th.
 2,441.-Fruit Box-Nicholas Hallock, Flushing, N. Y.
Patented Sept Patented Sept. 7, 1858.
I claim, First, A f cuit box constructed of thin sheets or strips of material
hich form tho bod and botom of the box, and secured together, substan-
 that it moy be aterial, such to and folded closely within the box substantially as
Thibed and specifled. Third, I also claim deinning the outline or shape of the box by means of
Grooves in the material forming the box, substantally as described and speci-
Fod


2,442.-Spring Holder for Wiping Cloths.-Henry John son, Chicago, Ill., assignee by mesne
I claim the spring holder for cloths consisting of two or more curved spring
angers, arranged substantially as and for the purposes described. 2,443.-Nicking Screw Heads.-GeorgeL. Morris, Taunton $\underset{\text { Mass. }}{\text { Patented June 12, } 12 .} 1866$.
I claim the improved nicked screw made either by casting or cutting
having the eaidnicks
betwentine at heir outerends and with the
 2,444.-Machine for Making Clinch Rings.-G. M Pat ten, Bath, Me. Patented May 2, 1854.
I claim the combination of the retainer and clea
prinf, or the equil ralent thereot, and the elastic, seaterer or prith the dies G , and its
 2,445.-Breech-Loading Fire-arms.-William Mont Storm New York City. Patented July 8th, 185 g.
First, I claim arreech piece, hinged at its front end, and swinging upwar




 Which would otherw
fore fully explained.
2,446.-Breech-Loading Fire-Arms.-William Mont Storm Nirst, I claim ark Chanty. Paten breented July 8, 1856 .
atece, when such breech piece is hinged


 positive motion as described, the lock
rel and bolt, as hereinbefore set forth.

## DESIGNS

2,533.-Trade Mark.-Charles C. Buckley and Louis Dovell New York City
2,534.-Conch Lamp.-E. R. P. Cowles (assignor to C. Cowles \& Co.), New Haven, Conn.
,535.-Stove.-Harrison Eaton, Amherst, N. H
2,536.-Medallion.-Orion Frazee, New York City
,537 and 2,538.-Round Comb.-W. S. Minges, New York City. Two Cases.
.-Handle of a Fork or Spoon.-John Polhamus, New York City.
2,540.-Handle of a Caster.-Horace C. Wilcox (assign
or to the Meriden Britannia Co.), West Meriden, Conn ,541.-Caster Frame--Horace C. Wilcox (assignor to the Meriden Britannia Co.), West Meriden, Conn.

EXTENSIONS.
Machine for Drilling Stones.-Joseph J. Couch, Brook$1 \mathrm{lyn},{ }_{23}$ N. Y. Letters Patent No. 9,415, dated November oclam the impro venent or making the drill rod to silde through the plston

 nitting Machine.-Daniel Tainter, Worcester, Mass. Letitiva Machine.-Daniel Tainter, W orcester, Ma.
ters Patent No. 9,435 , dated November 30,1852 .



 rain Separator.-John R. Moffitt, Chelsea, Mass. Jetters No. 540, dated March 23, 1858. Again reissued No. 716, B 1 , May 17 , 1859

Mortising Machine.-Joseph Guild, Buffalo, N. Y. Letters Patent No. 9,431, dated November
No. 333, dated December 11, 1855.
I clim, First, The sliding Wrist, o, connected with the chisel, and also with


 Machinery for Making Pills.-Erasmus A. Pond, Rutland Vt. Letters Patent No. 9,455, dated Dec. 7 , 1852 .




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winter-evening freside. Published by the American News Co., New Xork.

## EXTENSION NOTICE.

William Wickersham, of Boston, Mass., praying for the exteusion of a patent granted to him the 19th day of April, 1833 , for an improvement in sewing place on the 19th day of April, 1867, it is ordered that the said potition be heard at the Patent Offlce on Monday the 1st day of April next.

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at the holidays alone, but at many other times, the busi- and slots in the knife, C , and also by adjustable set screws, F ness of mincing meat and vegetables is one which must engage the attention of the cook. Many object to the machines which orind instead of cutting, believing the process detrimen-
reference to the the machin to the purpose intended. The machines are built of different tal to the material to be eaten, and the use of the hand chop ping-knife is wearisome and ex ping-knife is wearisome and exausting. The engraving repre sents one of those machines in tended to obviate this labor and to insure a thorough
chopping of the food.
hopping of the food.
As will be seen by the engr ing, the contrivance is a simple maclime secured to a wooden ,latform, which can be moved about or fastened permanently to a table. By turning the crank A, the large gear, B is revolved, giving motion, by a pinion, to another crank on a shaft carrying a balance wheel.
To this crank is attached a connecting rod jointed to one nd of a walking beam, to the ther end of which is secured the knife, C, which has a re ciprocating vertical movement guided by the fixed stud, D. The eceptacle, E , is of tin or any onvenient material, with a wooden bottom, and turns on the stud, D. The under outside edge of this vessel is ratchet, by which it is rotated one tooth at every upwardstroke of the knife, by a long pawl onnected with a short crank on the shaft carrying the balance wheel. The difference between


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 ture.
## Whitworth Ordnance

Some time ago we described and illustrated Mr. Whitworth's plan for compressing steel immediately after its being run into molds for the manufacture of cannon, hollow projectiles and various other articles Another patent has since been added to those previously taken out by Mr. Whitworth, and experiments are now being made at the Charltonstreet Works for perfecting this improved treatment of steel in making ordnance. A hydraulic press, capable of exerting a pressure of 2,000 tons, has been laid out for this manufacture. The steel manufactured at the Charltonstreet Works is all made in pots, and melted in coke furnaces; but the introduction of Siemens gas furnaces is now under consideration, and will in all proba bility be effected at an early date. The results of experiments hitherto made of casting steel under great pressure, or rather of compressing steel in its liquid state, have been most satisractory. The entire absence of air bubbles and spongy parts in the metal, and the strength of the steel so produced, give to these castings the same nature and character which stee acquires by the process of hammering or rolling. The pre cise method of this manufacture and the plan by which it is carried out is being kept secret as yet, until the first stages experiment and study slall have been passed tinrough.-En gineering.

In connection with the explanations and illustrations of the philosophy of waterspouts, lately given in the Scientrim AMERICAN, our readers will be interested in notices of three of these phenomena, from the Great Basin between the Rocky of these phenomena, from the Great Basin between the Rock
Mountains and the Sierra Nevada. Two of them are very re Mountains and the Sierra Nevada. Two of them are very re
cent. A waterspout bursti on the city of Austin, Nevada, flood ing the main street to such an extent as to destroy a number of houses. Another in El Dorado Cañon swept away larg piles of wood and several wood-choppers with them. Abou two years ago, a waterspout in Esmeralda county, in the sam state, burst upon a travelling carriage containing three per sons, killing two of them outright, destroying the carriage and fatally injuring one of the horses. These occurrence are characteristic of the country, having left their traces ever where in the wild work of torrents among the hills

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