

Issued from the United States Patent Ofice for the week ending september $21,1858$. [Reported officzally for the Scientlic American.] *" Circulars piving full particulars of the mode of ap-
"plying for patenta, size of model pequired, and mueh
other information usetul to inventors, may be had
 Lock-Christian Ackerman, of Newark, N. J. : I Iam
avare of various claimson ron rotating bolts to iocks, and
therefore do therefore do not claim the mere rotation. $\mathbf{c}$, in their
I ction the use of the fant, band lever,
conbintion with the ecentrin onving bolt, a, when
constructed and operated as pet forth. Gas RequLatore-Salmon Bidwell, of Chicago, Ill.,
assignor to the New York Car and Steamboat Gas Com-
pany of New York ity
 89, plate 5 , as this invention is not suitable for my pur-
poses., it binn entirely inoperative from its construc-
tion in regulating the fiow of gas under varying pres-
sure. sure.
But I claim the cock, $F$, operated by the diaphragm,
C, rod, $b$, and spring, a, as described and set forth.
 scraper, K, and recirrocatling mold carriage, Ad al also
constructe, aramged and operating substantially as
and for the purpose set torth. Sugare-Joseph A. Braden. of La Grange, Ga.: I
claim making the hiades of triangular form int iteir
transverse sections and fitting them to the handles, so
 [This invention consists in making the blades of
scissors or shears with their transverse section, of the
form of an equilateral triangle, so that each presents form of an equilateral triangle, so that each presents
three cutting edzes; and fitting them to their handles in such a manner that they are capable of being turned
therein, when it is desired to bring a new pair of cutting edges into an operative position when one pair
has been worn or blunted.] PLow Press and DriLL-T. E. C. Brimby, of Simp.
sonville, Ky. 1 an aware that presses and also drils
have been employed in making moldboards of plows, have been employed in making moldboards of plows,
anu I do not claim any of the separate devices employ-
ed by me.
 f plows, the whole being construc
operated substantially as set forth.
TRuss Papo-C. Campbell, of St. Louis, Mo. ; I do
not ciaim the mode or art or casting or molding gutta
percla into any desired shape.

 able fence, having their bearings on sills or their equive
alentiv below, horter at their tops than their bottoms,
substantially in the manner and for the purposes specisubstantially in the manner and for the purposes speci-
fed.
Second, In combination with pancls constructed as
described, I claim the sills spovided with one or more

 panela anduniting them firmy and expeditiously with
the eill of the key or wede, , in co mbination with the
brace or strap, $e$, substantially as specified. Rotrary Pump-M. RR Clapp, of Seneca Falls, N. Y. :
I am aware that corruyated or cogged pistons have been
used, and suich alone ${ }^{\text {do }}$ do not clam.


 hey are made to act simultaneongly on each side o-
the bar, so as to tut the nut blunk entitily off and de-
nosit betwen the vibrating jaws or formers, K K,
 press the sides of the nut to the required torm while
carrying it from where it is cut of to where it itis to
be punched on the die, 0 , substantially in the manner
set torth set forth.
Third, And I also claim the spring, N, as arranged
with the aforeaiid jaws or formers, Whereby they are
opened by a yielding force, as described.


 forde orvarengo, range ement shown, al rake or system or
spakes arranged or or operated, so that one will sweep over
rake
 orm, for such device has been used, and the plan car
ried out in various wass.
But
clambination of the rakes, $O$ P, the But I claim the combination of the rakes, O P, the
former being attached the box In, and the tatter op-
erated throug the medium of the gearing. HJ K,
placed within the box, I, and the bars, L M, and arm, erated through the medium of the gearing. H J K,
place withint be box I, and the barg, IM; and arm,
N, the whole being arranged as and for the purpose set
forth.
 [This is a novel means employed for operating the
rakes, whereby the grain as it it is cut is takeil from rakes, whereby the grain as it it is cut is takein from
the platform of the reaper and discharged in gavels on the platform of the reaper and discharged in gavels on
the ground at suitable points, by a very economical mechanism, that may be readily applied and will work efficiently in all cases.]
 metal, while the top and unexplored surfaces are formed
of rubber or other iar-proot Hexible material, substan-
tiall yas and for the purposes set forth. He2

2
 coal art, aproportions stated.
abut the pomponent parts of this cement are asphaltum,
[The [The component parts of this cement are asphaltum,
coal tar and the pitchy residue known as "residuary gum," which is separated from the fatty substances iu
the manufacture of stearic acid for whatare known as gum, "Wnufacture of stearic acid for wh
the mat
"star candles" or for other purposes.]
Ingstande-Samuel Darling, of Bangor, Mee : I
claim an inkstand with dippoing cup and reservir,
arranged and constructed substantially as described. Burglarg' Alarm-A. W. Decrow, of Bangor. Me. :
I do not claim, broady, an alarm bell attuched to or connceted by mechanam with a till or drawer, so that
an alarm will be sounded when the drawer is opened,
 or bolt. J, and an alarm rormed of the clock move-
ment , and bell, D, combined and arraned to oper-
ate substantially as and for the purpose set forth.

 only actuated, but changes also allowed to be made, so
as to
to trquire a marying movement of the slides in order
 an attempt $i \rightarrow$ made to open the drawer by force, or
otherwise without tampering with the slides, D E. [This invention consists in arranging a series of
slides and tumblers with a bolt and an alarm movement, whereby an alarm will be sounded, when an attempt is made to open the till, without having recourse to the bolt that locks it, or by actuating it in an im-
proper way. The invention is designed to effectually prevent the tills of store counters being suddenly open-
ed and rifled by adroit thieves, when the back of the ed and rifled by adroit thieves, when the back of the
proprietor or clerk is turned, a species of sharp practice of daily occurrence in large cities.]


 ciprocating motion through the agency of variations in in
the thickness of the thred apsing between the
whether the said surfaces consist of the peripheries of whether the said surfaces consistof the peripheries of
an eccentric wheel and roller, as represented in the
are an eccentric wheel and rolier, as represented in the
drawign and described. or have any other form which
permits of their operation in an equivalegt manner. Second, The movable carriage, T, with its opening,
7 and notches 7 , ${ }^{7}$ applied in ocobination with the
arien

 varies beyond certain parts thereof.
[A notice of this improvement is colmm.



 ,








[This is a

## washing coal.] Prupeas.



 and

CThe handle of this pump is adjusted insucha way














 Devtigrs' Cuatrs-Alex. M. Holmes, of Morrisville

 u, pinion, w, plates, QRe, and a' ${ }^{\text {º }}$, arranged relatively
to each other and applied to the back, c , substantially
as set forth.
CThe standard of this chairis formed of two parts con-
nected by a universal joint, and arranged with a clamp nected by a universal joint, and arranged with a clamp
of novel construction : the standard is also connected to a revolving base. The chair is also provided with supplemental back, the whole being arranged so tha the body of the chair may berotated and also inclined in any direction, and secured in varying positions, that
the operator may place the patient in the position most comfortable and conducive to the success of the opera tion with great facility.]
Smut Machings-Hiram Hopkins, of Evansille
Ind: I I am aware that scourers have beein constructed in various ways and usedr in connection with blast
spouts, and therefredo not claim separately any of
the parts irrespective of the coatruction Mhe parts irrespective of the construction and arrange-
ment of parts eo wn and described
But I claim tho scourer constructed of the vertical


In this or
CIn this machine a peculiar scourer is employed in
connection with bl astspouts and a fan so that the ef fectual cleaning of the grain from smutand otherimpurities and foreign substances will be easily and perfectly performed.]
WAsbing Maoune-H. R. June, of Millport, N.:Y.
I claim the combination of the revolving ruber. C having aiternate slats, d d d, and receding boards, ff,
asdescribed with her rubber, E, constructed and oper-
ating in the manner specified.


 of Center Groton, Conn: I claim the bed piece, A, pro-
vided with the elamp, Block or rest C, slide. D. hav-
ing the cuting tool, E, attached and connected with
the lever G in

 [The object of this invention is to obtain a portable
machine, and one that may be operated by a machine, and one that may be operated by a small ex-
penditure of power, for cutting metal bars transversely wita a clean, smooth cut. The invention is designed for the use of blacksmiths, repairers of railroads, and
others, who cannot employ large machinery for such others, who cannot employ large machinery for such
purposes. It consists in attaching a proper cuttingtool lever, and fitted in a rest, which has an automatic feed movement given it by the motion of the lever.]
 a cylindrical brush in the cotton gin, as described in E.
Carver spatent. and I am also aware thatrushe have
been arranged around the periphery of the end for cylinder, ind that such a a arrangement was patented
by B. D. Gulle., in 1858 , but while Ibleliev I can rrove
priority of invention over Gullet, I deem my arrange-
 with the protection against fire attained by Gullet. 1
therefore claim the brushes on he end of the clinder
when arranged substantially as above descrived, for the
 fibrous a batance from becoming entangled
nals and ior preventing accidents by fre.
 a wedge-ghaped rubber for selff-tightening on the for-
Ward morion of the wagon, and self-releasing on the
backward motion are not new, such therefore $I$ do not

 rise upon an inclined plane, and relieve the friction of
the wheels when backing the wagon and for repalacing
the
the bubbers, the whole operating as described and for the purposes set forth.
 their equivalents formed on the upper side of the sole, A, when used in connection with corresponding pro-
jections, b, formed on the inner side po the upper
fange $B$ the former being made to fit cavities formed in


CANAL BOAT-JOhn MCCausland, of Kingston, N .
Y. and Jefferson McCumsan and James McCausland,
 tween has and for the purposes set forth.
tially and
Second, Beveling the edge of the bilge timbers and Second, Beveling the edde of the bile timbers and
forming ameon either side of the beveled face for the
fitting on ot the bilge plank in a gradually rounding
 the chock between the dovetailed taces and the bilke
timber, as and ran a heement of means for adding strength
to the vessel., as set forth.
 of guard fingers and sickle as is shown in Jonathan
Reads machine, patented March 12, , 840 , what $I$ chaim
is is the combination of the sickle, having the scolloped
or indented edge and serated teeth, with a contioueus
series of fingers having the back reversed anglea for series of fingers having the back reversed angles for
supporting the grian or grass to be cut the the edge of
the eickle both above and below the edge or above the
ed ge only substantially as described. edjge only, gubsstantianly as described.
of the fing fingers thatting out the midde of the upper part
of the the sickle, as described of the fingers that project over the sickle, as described
in combination with the vibrating sickle, as described
for the parpose wpecified.
 D, arm, L, pitman, M, and guide, R. or their equiva-
lents, $\begin{aligned} & \text { Fh } \\ & \text { manranged and operated subs and for the purpose specified. }\end{aligned}$.







 diandilly in the
Rovary Harrowe-Jabez Robins, of Boston, Mass.
I am arare that loaded frames or weighs have been
previously used and and Prevlously used a and applied to rotating harrows, and
therefore do not claim broadly such device.

 pryhe set forth.
CThisinvention consists in the employment of two annular rotating harrows, placed one within the other,
connected in a peculiar way, and provided with weights and a draft beam, the whole being arranged so as to obtain a very simple and effcient implement.]
Water WhbEL_Alpha Smith, of Sanquort, N. Y. :
am amare that curved buckets have been used and ap pilid to horizontal water whell sin various ways, and
Iam aware asothat buckets have been placed botwen
conical shells. 1 therefore do not claim broady the parte above named.
But I claim constructing the buckets, $\mathbf{C}$. with ledges.
or prominences, t, the buckets being curve, nd fitted between the shells, a d, which torm the body of the
wheel. A, and arranged relatively therewith, substan
tilly as and for the purpose set forth [In this wor
[In this wheel the buckets are of curved form, and
are provided with ledges or projections, arranged so re provided with ledges or projections, arranged a
that each individual bucket will virtually consist of a series of buckets, against which the water will act suc cessively in its passage through the wheel, and a cor-
responding relative speed be observed between the responding relative speed be obse
water and the wheel at all points]
 steam. Neither do I I claim generally mounting an indepen-
dent cut-off upon the upper side of a valve.
 dependent cut-offapplied dhereto, oonstructed, arranged
and operating substanially in the manner set forth.
Second, I claim constructing the said rotary valve Second, I claim constructing the said rotary valve
with tuo or moresets of ports or ways therein, as de-
siribed, for the induction and eduction of the eteam, so scribed, for the induction and eduction or the etcam, so
as to enable me to cut off the sid steam at any re-
quired part of the strote without producig any con-
nection with the opposite side of the piston when the
5amazawa


 the segments, g. And
the purpose set forth.
CTwo harrow wheels are attached to a frame con-
structed and arranged in a novel way, whereby the wheels may be adjusted in a perfectly horizontal
whrect and plane, so that they will, as the implement is drawn along, remain stationary, or have no rotary motion, less in an inclined position, so as to obtain; by the draft
movement, a greater or less rapid rotation of the movement, a greater or le
wheels, as may be desired.]
ErzLET FAstenivgs For Lapiz' S Kirts-W, S.
Thomson, of New York City: I claim the use of the Thomson, of New York City: 1 claim the use of the
H-shaped washer or fastener, or equivalent, in combi-
nation with an eyelet, as a mean of fastening together nation with an eyelet, as a means of fastening topether
the straps and hoops of elastic skirts, substantially as
set forth.
 holds back the seeds, as that the cylinder shall work
against the edgeof saidopenbreast, and carry the fhber
past it, whildst the seeds shanl roll ap against the surface of said breast, ant draw the lint that has not been
take from them up through the openings, whence they
are turned over, and returned again and again by the
 Coon Plantrra-Charles Van Houten, of Sunbury,
Ohio I claim first, The emplopment of the hinged,
adiustable and laterally sliding hopper, and share adustable and laterally siding hopper, and shar
frames,
E. furnished with a spring stop or catch, $M$, in combination with a long transverse pinion. S. and the
propeling axle, $\mathbf{C}$, substantially as and for the purposes
set torth. set torth. The combination of the hinged grated apron,
Jecond. with the sub-sioiling overing shares, 1 , and furrow
opeater, H, substantially as and for the purposes set opear, H , substantially as and for the purposes set
forth. [In this machine the grain can be planted regularly in hills or drills, anch grain being conducted into the
soil by a channel in the bottom of the hopper and a narrow tube leading from the same to the ground.
After the corn is planted it is covered with light pulverized soil by shares which subsoil, and have a pultubes and hoppers can be adjusted very readily out of operation. We regard the whole arrangement as a good one for planting corn. J
 opposite sides or the log, by knives, arranged and oper-
ating in opposite directions, so as to cut with the grain
of the wood. Second, The construction and arrangement of the
diagonaly faced side piees. $D D^{\prime} D^{\prime \prime}$, and the slid-
ing frames,

 combination and connection with the sliding frames
and knives, goa to produce the drawing cut at the
same time that the knives are being thruat in upon the Fog ${ }_{\text {Fourth, The combination and and arrangement of cam, }}^{\text {19. the pair of barrs, } 13,14, \text { the connecting rod, } 12 \text {, and }}$
vitr vithat pair arm, ris, and pawl and ratchet so as to oper-
vite in the armanner deccribed, to raise or lower the feed
acrem.

 or tack one used hoisting
or vesels on hipbord. sub
for the purposes set forth.


 or partof the sulphur and arsenic, for the purpose of
obtaining thererom sulphuric acid, and the metals as
sulphates or oxyds.

Sroves-G. Smith and H. Brown (assignor to North

## Destroying Grain Inserte

Agricultural science is perhans the most important of all others, because we are dependent upon its results for the vers stamina of life, and no subject in relation to it is of more general interest than the one which forms the husbandmane remarks. The labors of the by the ravages of tiny insects, which devir his grain in the fields, destroy the fruit of his toil, and blast his hopes of an abundant har vest. The two most destructive of these in sects are the Hessian fly, and the wheat-midge or red weevil. The ravages of the latter have been very destructive in some sections of our country during the present year. The attack of both are confined to grain in the fields. The means which should be employed by far mers to prevent or mitigate their depreda tions are described by the distinguished Stat entomologist of New York, Dr. A. Fitch, also by Professor Hind, of Toronto, C. W., in his prize essay of 1857 .
There is another wheat insect which is of tentimes very destructive to grain in heaps, namely, the true weevil (calandra granaria), and as the crops are now being "gathered into the garner," our remarks will be chiefly confined to it.
This weevil is a sort of small beetle, brown in color, having a slender body, and is abou one-eighth of an inch long. The female lays her eggs in the wheat in the granary, and a single pair will produce six thousand descend ants in oc e year. The young burrow in the kernels of the grain, consume the contents, and leave only the shells. So secretly are their operations conducted, that it is impossible to detect them by the simple inspection of the wheat. On throwing a handful of the grain into a bucket of water, those attacked with the insect will float, while the sound grains will sink, and in this manner their presence will be discovered. After a femal weevil bas deposited an egg in a grain, she closes the puncture with a glutinous substance of the same color as the husk, hence the difficulty of detecting the presence of this depredator when in its larve state. As one of these insects can be the means $f$ destroying six thousand grains in a storehouse in a seasoln, some conception will be formed of its means of destruction
On the approach of very cold weather, de veloped weevils retire from the wheat, and seek shelter in crevices where they remain in a torpid state. They are rot so destructive in the cold as in the warmer sections of our country, where certain methods for their destruction are more urgent and necessary They avoid light, hence. if the wheat is kept in well-lighted granaries and frequently turned over, much will be done towards checking tbeir operations. Authors, however, who have devoted much attention to their habits, have assurted that kiln-drying the wheat is the only effectual means of destroying them. It has also been recently recommended that wheat for storing up should be submitted to the action of a smut machine, to receive a thorough scouring, in order to rub off th glue with which the female conceals the punc tures made for her eggs. The admission of
air into these small holes, it is stated, destroys the germinating powers of the eggs. It seems reasonable to us that by submitting wheat to a scouring process, then heating it in a kiln up to a temperature of about $120^{\circ}$ or $130^{\circ}$ Fah., it would he completely protected from the destructive effects of this insect in granaries.
A correspondent of the American Farmers Magazine asserts that the weevil, midge, Hessian fly and rust may be exterminated from wheat by preparing it for sowing, as follows Wash the wheat thoroughly in several waters in a tub, stirring it well until the water runs off clear. After this take two quarts of caustic lime to every bushel of grain, and mix well with the wet wheat in the tub. The amount of water in the tub should just cover the grain, which must be left to soak for twelve hours. This lime lye kills all the seeds of the insects, and the wheat is then rendered fit for sowing by turning it over among dry wood ashes on the barn floor, and using a pound of the flour of sulphur to each bushel. It is stated that the sulphur protects the grain from the attacks of vermin, while the alkali dissolves the insect ova in the seed. Wheat thus prepared has yielded large crops in New England. We have seen this grain prepared for sowing by various modes, such as salt brine, lime and ashes, but we like the above metnod better than any hitherto known to us. Farmers residing in sections subject to the attacks of the Hessian fly, who do not sow fall wheat until October, should give this method of preparing it a trial. It cannot injure the grain and we believe it will be the means of greatly benefiting it.

## Preservation of Fruits.

As at this season of the year we have frequent inquiries respecting the best manner of preserving vegetables and fruit, we will present something which, we think, will be of benefit to many of our readers. A common way of preserving green corn to make succotash during winter is to boil it slightly in the ear, then remove the kernels from the cobs with a knife, dry them by a slow heat, and pack in tight cans. The same practice has been pursued with Lina beans, \&c. A friend informs us that green corn, peas, Lima beans, tomatoes and various other vegetables, can be preserved without the use of tight cans and in a superior manner by drying them slowly at a low heat in the shade, until all their moisture has been evaporated, after which they are placed in stone ware or glass jars, and put away in a dry pantry. The best method of carrying out the operation is to place such veretable in shallow eathentar plates, and arrange them around a stove until they (the vegetables) are thoroughly dried. They should be steeped for an hour in warm water before they are cooked. Most of the vegetables employed in cookery may be thus preserve., and retain all their original flavor. Peaches, plums and such like fruit may be preserved in good condition as follows :-The fruit (which must be perfectly sound) is placed in air tight "self-regulating cans," then boiling hot sirup made in the proportions of one pound of white sugar to one pint of water poured in up to the top covering all the frait For a few seconds air globules will rise to the surface; when these cease ascending, the covers are put on the cans, which are then put away in a cool, airy place. Fruit or veget ables, preserved by sirups, and put up in tin vessels, do not have such a good flavor as those which are put up in stoneware vessels at least this is our experience.
At a late meeting of the Cincinnati Horticultural Society, this subject formed an inter sting feature in the proceedings. One mem ber stated that he had found it beneficial to gather his fruit in the morning while it was cool, and to keep it in an airy place. Pears hould be gathered before they were fully ripe, and allowed to mature after picking, in a cool, clean cellar, in such a position as not to
stated that he had tried two methods of preserving pears; one was by packing them with oats in barrels; the other by wrapping each in a piece of dry paper, and placing them in boxes in the same manner that oranges are packed for shipping. This was found to be far the best system. Another member-Mr. Buchanan-stated that he had the Virginia greening apple perfectly sound at that time (August). It was of last year's growth, and was put away in a tin-box in a cool, dark cellar. It was generally conceded that fruit kept best in a cool, dark situation. Mois. ture, light, and heatare active agents to cause and promote vegetable decomposition; fruits for preservation should therefore be secluded from such influences.

A correspondent (C. Campbell) of the American Agriculturist describes the following method, whjch has been successfully pursued by him for preserving grapes. The clusters -all sound and fully ripe一are carefully placed in open shallow boxes, about six inches deep, with a sheet of dry paper between each layer. They are then set in a dry, airy place, and thus kept for ten days, during which period they sweat, and the moisture passes off. The lids are now put on tight, and the boxes set in a dry, cool place, where the grapes will not freeze. Grapes thus treated and packed will keep fresh all winter. It is asserted $t$ ) be a superior mode of preserving to that of packing them in dry bran or between layers of cotton wadding.

## Currant Wine.

In answer to the request of a correspondent, we give the following recipe. Bruise eight gallons of red currants with one quart of raspberries. Press out the juice, and to the residuum after pressure, add eleven gallons of cold water. Add two pounds of beet root sliced as thin as possible, to give color, and let them infuse, with frequent stirring, for twelve hours; then press out the liquor as before, and add it to the juice. Next dissolve twenty pounds of raw sugar in the mixed liquor, and three ounces of red tartar in powder. In some hours the fermentation will commence; when this is complete, add one gallon of brandy, let it stand for one week and then rack off and let stand two months. It may now finally be racked off, and placed in a cool cellar where it will keep for years. The cider white wine is a pleasant bever ge; here is the recipe. Mix sixteen gallons of apple juice, sixteen pounds of honey, four ounces of white tartar, enclose in a bag one ounce each of cinnamon, cloves and mace, and suspend them in the wine while fermenting. When this fermentation is complete, add one gallon of rum.

## Poison of the Common Toad

It is an ancient and common opinion that toads and salamanders possess a subtle venom; this, however, has been generally deemed fabulous by those engaged in scientific pursuits. MM. Gratiolet and Cloes, in a report to the French Academy, show that there is in reality some foundation for the common belief, and that toads and salamanders do ecret e a deadly poison. These gentlemen innoculated small animals with the milky fluid contained in the dorsal and parotid pustules of these animals, and found it productive of fatal effects in a short space of time. A turtledove slightly wounded in the wing and inocu. l:ted with the liquid secreted by the salamander, died in terrible convulsions in eight minutes. Five small birds inoculated with the lactescent humor of the common toad, died in five or six seconds, but without convulsions. The liquid of the pustule of the toad, even after being dried, kills birds, hough not with the same rapidity as when fresh.

Acknowlmoument. - We have to thank Commander Thomas J. Page, U. S. N., for a Commander Thomas J. Page, U. S. N., for a
beautifully colored map of the basin of La Plata, being the result of his recent surveys.

