will keep the lips closed. But should sticks will keep the lips closed. But should sticks
or other obstructions be drawn into the wheel and be brought in contact with lip E , it will be thrown open and the obstruction will pass
by, thus preventing injury to the curb or to by, thus preventing injury the buckets of the wheel.
This improvement also enables the extremity of lip, D, to be brought much closer to the extremities of the buckets of the water wheel than it would be safe to do if it were a solid portion of the curb, which causes the water to act with greater efficiency upon the wheel.
We have seen testimonials from a number of persons who now have these wheels in use, and they all speak of the invention in the highest terms of commendation. Its extreme simplicity, portability, and ease of management will insure for it a very general use. It runs with great steadiness, is easily regulated, is adapted to high or low heads, runs in back
water, is not liable to freeze up, has but little water, is not liable to freeze up, has but little friction, only a short time and but little expense is requisite to put them in. Price $\$ 35$ up, according to size. For further information apply at the Palace, or address the inventor as above. Patented July 8, 1856.

## IMPORTANT NOTICE.

When an individual has made an invention, the first inquiry that naturally suggests itself is, "Can I obtain a Patent ?" A positive answer to such questions is only
to be had by presenting a formal application for a patent to the government, embracing a petition, specification, model, duplieate drawings, and the payment of the regular official fees. Aside from these steps, all that the inventor can do is, tosubmit his plans to persons expe rienced in the business of obtaining patents, and solicit
their opinions. If they are honorable men, he may confide to them his ideas with perfect safety, and they will inform him
patentable.
Those who wish to consult with ourselves on such matters, are at liberty so do so, either in person, at our office, or by correspondence through the mails. For such
consultations we make no charge. We shall be happy, at all times, to examine inventions, and will give conscien tious opinions as to their patentability.
Pen and ink sketches of the improvement, and a written description of the same, should be sent. Write plain; do not use pencil or pale ink; be brief. Remember that all business committed to our care, and all con
are kept by us secret and strictly confidential.
Parties writing to apply for patents are informed fthat they can have the necessary drawings and documents promptly prepared at this office, on the most reasonable
terms. It is not necessary for them to go to the expense of a journey in order to be personally present. All the required business can be just as well arranged by corres pondence. Models should be sent by Express. We have been engaged in the business of procuring than any other firm in the country, owing to the fact that the amount of business done by us equals, if it does ot exceed, that of all other profesional patent agents in the the patents annually granted by the American government, are prepared and conducted by our firm.We have in constant employment an able corps of exam-
iners and draughtsmen,whose duties are so systematical ly arranged, under our own personal supervision, that ful stud commited to our care, receives the most care In ery in and prepare the whole case, that the patent, if granted, will stand the test of the courts, and be of value to the owner. Our patents are scattered all over the country. in this respect they spealk for themselves. In addition to the advantages which the long expeof our firm, in obtaining patents, present to inventors, they are informed that all inventions patented through
our establishment, are noticed editorially, at the proper time. in the Scientifio amirioan, without charge. This we are enabled to do from the fact that, by preparing the case, we become familiar with its peculiarities week, and has a wide-spread and substantial influence. own intors, we believe, wil generally promote their care.
Address
MUNN \& CO.,
suspension bridge is to be built from Cinnn ati to Covington, sixty feet in hight.

No less than 836,850 pounds of quicksilver were exported from California during the last six months ending July 1st.

[Reported Officially for the Scientific American.]
LIST OF PATENT CLAIMS Isaued from the United States Patent Office for the week ending october 30, 1856. Rivg Bolv for Ship's and Boar's Tackle_Hub
bard Bigelow and Mortimer M. Camp. of New

 SodA FoundarNs-J. F. Boynton, of Syracuse, N. Y.
Cliaim first, the described arrangement of the plunger E, and vessel, D, or anj other arrangement sobstantial
Iy equivalent thereto, whereby the acid may be measure and delivered to the other ingredi ents in determinate
quantities, as set forth.



 disconnect one or more of the cars, if desired, substan
tially in the manner set forth. Vegerable CuTtera-George W. Childs, of Liberty
Pa.t. Iclaim the vibrating cross Enives, $h \mathrm{~h}$, operating
in the manner set forth. SMUT Mills-Joel W. Cormack, of Quincy. Ill:
do not claim creepers, or flanges, or cones, in themseives, But claim the combination of the cones, E , and creep-
But c . arrangen and operating in connetion with the
franged rims, $J J J$ attached to the cones $H$ and $M$, in fhe manner and for the aurpose set forth and described.
 make the crease for the fold in paper, or ot ther subtances
sothat any number of sheets for successively tor said
machine may be folded to correspond to the printing or machine may be folded to correspond to the printing or
otherimpresions made theroon by means of the pointsor
register pins, II, or other equivalents, and the holes by which the sheet was registered upon the press, or the
holes or marks made in the sheet for any other purposed
the said pins being adapted to the said holes or marks, and the said pins being adaptod to the said holes or marks, and
the shee or or substance to be folded placed unpon the said
pins by using the said holes or marks for that purpose.






 said fly ajustable also the manner of moving the saic
endiess belt, tabstantially as doscribed.
Seventh, 1 am well aware that endiess belts have lon Seventh, Iam well aware that endless belts have long
ben used for conducting paper in ioling and other ma-
chines. Therefore I do not claim them as my invention. I $\begin{aligned} & \text { But } \text { claim arranging a single series of endless belts. } \\ & \text { substantially a described, sothat paper or other substan } \\ & \text { cos may be conducted by them horizontally from a pai }\end{aligned}$ cos may be conducted by the m horizontally from a pai
of rollers when passing downwards between themm.
Eighth,
 pair, in the proportion and tor the purpose specifind.
Ninth I Claim controlling the frits biade or plate o
foling machines by a treddle or other means, for the
purpose specified.
 parts se parately. $\begin{aligned} & \text { But claimbination and the application of the } \\ & \text { arioundevices described, for the purpose of coupling } \\ & \text { firemen's hose }\end{aligned}$ Mirivg Mortar-Benj. F. Field, of Beloit, Wis.
claint
 to carry tno ntaterial from place to place, in cosbina-
tion with the nethod subtantially as described, for dis-
charging the mortar from the revolv ing box.
 I also disclaim the use of a movable cleaner or wiper
of any description whaterer to remove the flies from the
surfe of the cyinder or
 In claim the combination of the revolving cylinder with
the screns or wir work, when the whole ico constructed,
arranged, and combined substantially as described.
 doe. E, in combination with the projection. C, the whole
being arranged in the manner and for the purpose de-
scribed.
HARVErTERs-William Dripps. of Coatesville, Pa.: I
claim giving to the cutters of a havreeting machine a
craveling and a rotating motion at the same time and by taraving and a rotating motion at the sesting machine time and by
means substantially such as described.
 been immersed in quantitios attached to frames, or
whells. or orrars, in a horizontal position, and lept out of
contant with each other, but in no instanchave those
several devices been connected to each other, in such manner ast to ofrra a frame or or falee ve vo by by which hhe he whol
could be simultaneously immersed in or withdraw from the liquor vat.
slatain, frrst, arranging a series of ranges of horizontal
slats in a false vat or frame upon which the hilise are placed one upon every range, whereby the whole may
be simutaneousl raise out of the liquor vat (ithont
pumping of the tiquors,) substantially as and for the pur

 | $\begin{array}{l}\text { edrods, } \\ \text { vat may b } \\ \text { scribed. }\end{array}$ |
| :--- |

 cons, and hozting bodies, by having thir cables attached
O. said bodias in the line of their calculated center of
tidal prossure.

 ries of vertic
as set forth.
Bernirg Woon-Fdwin, Artemas, and Cheney Kil
burn, of Burlington, Vt. We che claim the bending of wood
by forcing it
 gitedinally in the erequired form, and has the dimensions
of its internal transurse section of the pieceo of wodid thus
causing the wood to be confined in a lateral direction causing the wood to be confined in a late
during the bendinn process, for the purpose
the separation of the fibers, as described.



 a float, B, substantially as described, the ocmbination of
the several parts forming a selfacting regulator, for the
purpose of making paper of equal thickness.
 iven guantityof liquid from a mass or ollumn by a travel
ing tube and plunger, operating together substantially aa ng ture and plunger, operating together subsantialy
set orish oclaim the gauge plates, $N$ N N, in combination
Tith the valy seat or packing of the With the valye seat, or packing of the plunger fitting
hererto for adjusting the meansining apparatust the exact
huantity to be drawn, substantially as specifed


 manner in which the said vitrified corners are attached
to the frame
We als claim the receptacle, d. below the glass or other plate to catch ch the receptacle, d. below the griass or other
das specified.
 cuthng ilades,and he sill or the harvesters, whether they
be used with a sill made entirely of metal or partly of
wood, with more or less metar attached to the same.

Cleanivg W ool-A. W.Putnam, of Brooklyn, N. Y.
I claim the combination of the main picker cylinder, nd the open and closed concave, in combination with
he burring yllinder, arranged and operating substantialI also claim the burring cylinder in combination with
he adjustable burring bar or bars,arranged and operating the adjustable burring bar or bars, arranged and operating
subbtantialy as described, for stripping the burrs and
other foreign substances on the fibers as described.
 , and case, O, constructed, arranged, and operating as
docribed, othat the gravity of the slide, shalls hoot the
bolt, and maintain it in position.
 backs to the glass faces of truss pads by a flange around
the edde of the back slipping within the rim, onstituting
the edge of the Elas face piece, substantially as and for
the purposesspecified.
 cutter cyiinder. Nor do I claim combining knivesin
ny manner with a rotary cutter head or frame to hold any manner with a rotary cutter head or frame to hold
said kniveso that siad had or any parto it may serve
as a buide to the form or pattern carrying a material to I lamim the combination of one rotary cutter, two guide
Ieads, $\mathbf{B}$ and C , and two tables, G H, arranged as described.
Ialso claim the com bination of a a vibratory spring press.
or, 1 , with a rotary cutter stok, $A$ and
and
tata he said presser being made to operate with respect to the
utter stock and tables, and either guide, B , as speciied.
I also claim the combination of mechanism for moving
he vibratory spring preser and its spring toward e either
her
 itmans, OP, as described. the mechanism for moving
An in combination with the
he vibratory presser, and itsspring towards either of the
 Finsuring GAs Pipe Firtivgs-C. C. Walworth, of
Boston, Mass.: I claim the arrangement and combination of the machines operating substantially as described, in
a prane around a common center, for the purpose
screwing or tapping different nnds of gas pipe fittings at
 ither of them
with the others.
NUT MAchives-W. E. Ward of Port Chester, Y. Y. Y.
do not wish to be undertood as limiting my claim of
ivention to the spial form construction or arrange nent of the several parts, as the sonstruction. or arrange.

 the two holes or two dies, so that a hole is punched in the
bar for anothor nut, during the oontinued motion of the
punch to discharge the nut which was cut off during


 I also, clamim the holdang of the nut blanks on the man-
drel in combination wit to sways or
of the nuts, substantianth
I I also claim in in combination with the mandrel for hold-
ing and turning the nut thanks, sutatatialy as described,
the employment the employment of the hammers for hammering or
swaging the edes of the nuts, substantialy and desribed.
And, finally, claim the combination of the swages for
 Irections, and a good Worth, of Boston, Mass. : I claim the mon center, and locking the same in any desired position
by means of the lever. , and notches, or any other suitaby means of the lever, G, and notches, or any other suita-
boese ince, subtantially in the manner and for the pur-
pose sorth.

 Second. we claim the means by which the plunger is
locked with, and disconnected from the cylinder, D. con sisting wisth, and and of of the pins, from the g, and and the arms,
operating in the manner substantially as described.
 claim operating upon the blank immediately beyond its
poont of support.in the manner and for the purpose sub-
stantially
 ied apon br the vibraing cuters, in the mannersubsta
tialy a ase forth
Third, I claim the method described, of operating t
 Fourth, I llatim formernes, the se futters of circular disks
or of portinsthere in the manner and for the purpose
substantially as set forth.



 sist in twisting the spring when applying it.
I alsoclaim se uringaid bracket in its place by means
o a socket inserted in the door or casing, or any other of a socket inserted in the door or casing, or any other
means substantially the samet that will
it anstantly it, after it has been applied to the sprinp, and the neeces.
sary power obtained. and will also allow of its being
easily removed and re-attached when it is desirable.
 the edge of r stationary knife. Nor No I claim shaving
them by meansof revolving cutters. Neither dol claim
any of the individual devices employed, nor their com. Butions. claim the peculiar arrangement of the several
parts of the described machine operating in the manner specified, for the purpose of splitting the poles and shav.
ing the hoops at one operation, as set forth.

 screw, as this is a well known method of constructing
such tools. such am also a ware that the exterior jaws of such tools
have bern caused to close upon a central step or block,
thus forming a species of compound pincers or lasting
tool But I I claim the described instrument for lasting boots
constructed and operating in the manner substantially as
set forth.
 stone or thereabouts, nor yet the straight tangential fur-
rows. of themselveson apartfor their relative arrange
ment, combination, and operation together in the two stones.
Neithor do I claim of itself the curved furrows arch.
ing in op oposite directions in the two stones, and gathering in the grain towards the eye.
Eut claim forming the master and subordinate fur-
rows Co. Cof the stones, substantially as described, viz.,
 curved portion being es enents of a circle of equal curva-
ture, or thereabouts, so that of the outer perripheries of
 inf, or sat forth
Coiled Spring for R.R. Cars-Carlos French, of
Seymour, Conn. $:$ I claim composing the coiled leaf of
 ends thereof, substantially as set forth.
 described arrangement of a series of fire chambers to
communicate with one common flue irresective of the
purposif which and the manner in which I employ
purid Buaid arrangement
But clam the combution for the purposes of a high
degree of heat of bagasse, refuse tan saw dust, and other
 manner substantially as described, to communicate with one common fliue or mixing chamber, when any number
on said chamber are nearly chosed to the ammision of air
ohen first charged as described, whilst the remaining
chamber or chambers is in full communication with the

 BuF Yor Pourshivg Spoovs-Luther Boardman. of
East Haddam, Conn. Patented Dec. 15, 1843 I I claim a
cylindrical buff composed of soft leather disks or rings, cylindrical butf composed of sof leather disks or rings,
when the outer portiono of said disk are lief perfectly when the outer portions of said disks are left perfectly
freo from ench other, so as on admit of the yieldaing ne-
cessary to their proper action, substantially as described

 mode of application, as other modes may be devised,
operating on the same principle, or having the same
mode of operation, and only difforing therefrom in the substitution of equivalent means.
Whe claim forming the bat of fur fibers on a perforated
cone or other form, substantially as described, in combi-
 scribed.

 side may be used for the outside, in order thatthe sam
lock or cased fastoning manamemer for a right or lefthand
door substantially as descrived. I alsoclainithe peculiar construction and double ac-
tion, upon aninclined and horizontant track or way. of the
locking car, B, as described, and the combination of the

 by simply turning it voer in the lo
a right or left hand door.
DEsigns.
Cooking Stoves-Daniel Wilson, of Nashua, N. H. Crlindrical Coal Stoves-Russel Wheeler and S
A. Bailey, of Utica, N . $\mathbf{T}$.
Cooking Stoves-H. E. Bridge, of St. Louis, Mo.
SToves-N. S. Vedder and W. L. Sanderson, of Troy
N. Y., assignors to North, Chase, and North, of Phila
delphia, Pa. STovers-S. W. Gibbs, of Albany, N. Y.,., assignor to
North. Chase, and North, of Philadelphia, Pa. Parlor Sroves-Jacob Beesley and E.J. Delaney,
(assignorsto Oreson, Stuart, and Peterson.). of Phila:
delphia, Pa.

 SToves-Garrettson Smith, Henry Brown, and J. A.
Read, of Philadelphia, Pa., assignors to Hayward, Bart-
lett \& Co.

## Francis' Metalic Boats in Ensland.

Renewed experiments-we learn by the London Mechanic's Magazino-have been made recently with the above-named boats at the Woolwich Arsenal. These were very satis actory, and the authorities, Sir G. Pollock Sir F. Abbott, Gen. Brooke, and Col. Tulloch expressed their decision of urging the govern-
ment to adopt them for every purpose to ment to adopt them for
which they can be applied.

