[Reported Officially for the Scientific American.]
LIST OF PATENTCLAIMS Issued from the United States Patent omice for the week ending april 22, 1856. GAs BuRNERS-William F. Shaw, of Boston, Mass. : I
claim the interposition of an imperfectly conducting body claim the interposition of an imperrectly conducting body
betwen the tip and base of gas burners tor the purpose
of preventing the conduction of heat away from the point
where the gas is burned. here the g

 elastic strip or strips with an internally toothed ring in
such a manner that the strin or trips shall seree ar a pro-
tection against the teeth until the distention of the penis
takes alace when it


 Yice, attached to a single pole as to admit of easily build-
ing a fire, for the purposes set forth.
Second son described, with its
hood or cowl, in combing the tent antion with the door and haif door hood or cowl, in combination with the door and haif door
or opening to effect ventilation and the escape of smoke.
FASTENING LAMPs to LANTERNS-Emile Sirret and
 the lamp with the bottom extending so as to form an an-
nular flane, which may be revolved with the lamp in
dependently of the base of the lantern. for the purpose of
attach hingthe the to the tatern
tially as described.

 GRAIN SCALE-Nathan M. Phillips, of New York
City Inclaim the apphication of an electromagnet to
open and close the valves of a scale for weighing grain by
 MEASURing Facers-Wd win A. Palmer, of Clayville,
N. Y. I do not claim any of the principles involved in
the common faucet or stop cock:


 to the purpose of astreet pavement or a street railway.
Neilh in in claim pavement blocks of a cylindrical form or with any particular form of surface.
But claim the cylindical form with the tangential
flat surfaes rased upon its ircumference, as described,
for contact between the blocks



 tially as and for the purpose set forth. two barbs, $A \Lambda^{\prime}$, in
Second, makin the hook having two Second, making the hook having two barbs, $A$ A', in
two parts, and unting said parts loselely together, so hhat
oone shalturn freor the other, substantially as and for
the parpose set forth. the purpose set forth. with the barb, A, one or more min-
Third, combining .
now barbs and having one of the barbs turn free of the
barb, $A$, substantially as and for the purpose settorth. SEEDiNG MAOurves-George J. Ditler, of Lancaster,
O. Ido not claim arforated rectiprocating slide, H,
for it has been previously used.










 Digging Peat-Nbraham Fitts, of Worcester, Mass. :
First, I claim the movable knife or fork, M , as de.
 forthird, I claim the combination of the digger, the crane
and the thatiorm or cars to hold them and receive the
peat.

 smoothing irons, \&


 frstly, effecting the ramming ofthe cartridge by means of
thh fixed rammer, in combination with the reciprocating
breech chamber as descibed.
Secondly, the arrangement for holding and releasing


 the tumbler, ${ }^{\circ}$, or the the mecha.
parts for the purpose set forth.

 or its equivalent,substantially as described, that the arma
ture constitutesthe whole or part of a variable lever,
which cases the effective force of the springorn itsequiv,
alent to increase
 opened and closed that the said ringer is caused to move
with the armature by friction only, or its equivalent, and
after having moved the slight distance necessary to open
 scribe thereoy obviating the ne eessity of manual adjust-
metic of the armature to compensate for variations of mag-
netic force. Waste Device for Hidiants-John Culver,
Baltimore, MId
the plunger relative to the the discharge pribedarrangement and capab the plunger relative to the disc harge pipe, and capable
of eleveration proportional to the capacity of on said pipe for
form
for the the reception of the conter ports ortion of the hyd for the reception of the contents of the discharge pipe
substantially as and for the purposes specified.
Door Locks-John B. Erb, of Strasburg, Pa.: I claim
 $\pm=$

 top and open at the botom and fixed intos, the tube plate,
g.all omber ined subtantially as described and for the pur-
poses set forth. poses set forth.
Second, the compensating condensed water syphon
pipe, d d d d. withone le,g d, starting from the reservorir,
m, in the steam chamber, and passingup through the di-


Driving Spomes-Christian Haas and John C. Noll,
of Chicago, III. We make no claim to the driving ar-
rangement separately considere 1BEt we clinim the acjustable hub bed and spoke guide
in combination with the driving apparatus, the several
parts being onotitucted and arranged substantially as and
for the purposes set forth. Hotris $A$ NNUNCIATORS-Wm. H. Hale, of Worcester,
Mass.
to denote which claim the device of titing number number is wanted, as it is not new. But I claim the combination of the number plate with
a hammer, whereyl
and strike the bell with mented the show the number
 plates ornumber hammers, or their equivalents, in ranks,
upon ranks. of wires. respetively operating them, the
tires pasing through slots in the hammer levers substan-
tially as descrived.
 STEAM 10iners-C.B. Hoard, of Watertown, N. Y.;
claim closing the openingsor man holes in one or both
headis obobilers the insertion of a flue which may be
conveniently removed and replaced, substantially as de scribed.

 SUsprndivg ExiRA Topsuri Y YARDS-George Hub-
bard, Stonington, Conn. I clain, in the application
of the extra yard, arranging the same or its connection
 applying said extra rard to the topmast and suspending it
from or near the tresseltree by means essentitilly as de.
scribed, whereby said yard may not only be raised up to
wards said tresseltree but be supported in the manner set
 of the lower mast-hea
 causing it to fall from a suitable hight and between pro
per guards or guides upon sharp pointed teeth and
chisis placed on bocks, he whole being arranged and
constructed substantially in the manner eonstructed substantially in the manner and for the pur
ses set forth.


 as to operate by the door knob, and to produce the doubl
effect of a weather strip and lock , therefore do no
claim oall ontrivans sthat produce this double effect.
I claim the combination
 the same time, as set forth.
 has represinted in his patent of April av, 1830 , two ma
chines united in one frame, ut they have no neessary
connection with each other, nor is there any part tof the
operation operation of cieaning or feeding that is com comon to both
manchines as in ours. We do not therefore claim the uni
ting togther of two machines. But we claim so arranging the hopper, R, feed rolls, F
F, and brushes. S S , as that they shal draw in the, ma
erial, divide it into nearly equal parts, and thow terial, divide it into nearly equal parts, and throw one
half in one direction, and the remaning half in a contra
ry diretion. o be acted upon by other rolls and brushes
as set forth.
 Hoop MAchinE-Geo. W. Holmes, of Buckfield, Me. Me.
(assignor to J. C.Marble of Paris, Me.). I claim the ar
rangement and combination of the pressure rollers, the
 of pressure, as explained.
And under the arrangement of the saw and pressure
olincs, as described, Iclaim makking the saw dishing or
concevoconver by which advantase are gaine or

Corn Har vestrrs-R. C. Mauck, of Conrado Store
Va., and W.T. McGahey, of McGaheysville, Va.: W
 santially as specified.
Second the employment of a double series of cutter
or cutting the stall ynd sta mpa a described, and there
admitting of the delivery of the cut product without el-
ovation.
  tube
to fill
boto
woul
sam
to
ti
ticu
tet
jen
dri
dri ame being described in a patent granted Aug. 27,1 , the

 rentsof heat made to ascend against the concave botton
of the retort, as specified, the same serving to greaty fa
cilitate the generation of vapor, as well as the heating of
the se the che same
the allaim combinining with the retort the bell-shape
cap or chate retanier, . made of transparent or orte
proper material, the same being arranged substantially in cap or heat retainer, G, made of transparent or othe
proper material, the tame being arranged substantially i
the manner and for the purpose as set forth Sawr Mar Sawivg Marbie-James Miller, of Buffalo. N. Y.: I
claimthe combination of the crank shaft mounted above
the saw frame, the looselt jointed pitman and the rock. ing bars vibrating on fuolcra upon the adjusta ble frock-
inges
which guide the saws, operatiug substantially and for the
purpose set forth. Corn Shellers-A. H. Stevens, of Warsaw, N. Y. $\mathrm{Y}_{\text {it }}$
claim, in combination with the shelling surfaces. the wings, z, openings, y , and spiral flanges or ribs, d, for the
purpose of creating and driving throuht the matchin
bastor current of air, for separating the grain from the
other impurities substantially in the mangrer and for the other impurities,
purpose set forth.
R. R. CAR AxLEs-Richard Vose, of New York City
I do not claim the une of an embracing ube, for holding
the iner ent larly used before.
But 1 clanim the connecting segments, $c$ c, when com
bined with the inner ends of divided axle, and the em
bind bined with the inner ends of a divided axie, and the em-
bracing tube, d, substantially as set forth.
Corree Pors-C. B. Waite and J. W. Sener, of FreCofres Pors-C. B. Waite and J. W. Sener, of Fre-
dericksburg, Va.: We do not claim a condensing coffee
boiler. biler.
But eclaim the arranyement doscribed, whereby the
steam from the boiler is is cisharged into the water in the
condenser which absorbs the aroma in combination, for condenser which absorbs the aroma, in combination, for
returning the contents of the condenser into the boiler
substantially as set forth.
 1o not claim the horse power consisting of the roller
noving in a circclar path about a center, as that it old
heither do 1 claim the universal joint swivel or other
parts by themselves but I claim the described mode of cenverting the mo
tion of an axis rolling around a center, into an alterna
ting motion at right angles to the plane described by th F, conneecting link, G, universal joint, $I I$, and swiveling
s.ind , connecting link, G, unive rsal joint, II
oolt of the same, substantially as set forth.
WIre Fencrs-T. D. Burk, of Chicazo. Ill. (assignor
to James Garrett, of Ogie County, Ill: or the key, the lever, the weight, and the stay
oo wire fence, as and for the purposes and uses specified AUGER-Kelsey Curtis (assignor to Winsted Auger Co.)
of Winchester, COnn: I claim the making of an extension bar, connecting the small screw on the end of the
auger or bit, with the lips or cutters of the auger proper.
 Brooklyn, N. Y.: I claim completing the throw of steam
Vales of diretacting engines. by the steam already
within the cylinder on its way to the open air or to a con-
dins and denser,

 shovel or tons,

 ting of delicate grooves by the arrangenent of the work
ing partsof such machine upon each side of its principal
frame alternately. ronly claim the arrangement of the pr
frs, as and for the purpose mentioned.
 of Boston, Mass.) : I am fully aware that it is not ne w to
make a shirt stud or button, with a wire shank extending
from it centr and bent around in a helix or spiral form Irom its center and bent around in a h helix or spiral form.
Iontainet thime the same nor the principle of the screw
contained therein. containe tatherein.
dinary 1 claim constructing the back disk hold or or but on ton, with the slit, d, externdim
from tits circumference to the shank, and having one of its from its circumterence to tone shank, and hat havingone of it its
edges raised with respect to the other, substantially as
specified. Loous por Weaving Bags-S. F. Thomas, of Law-
rence, Mass.: I claim, in combination with the compound
cam, K, the endless chain or belt, $P$, and the mechanism for moving the switch. r, the whole being arranged sub-
stantially as doscribed and for the purpose of determin.
ing the length of the sides or when to form the bottom of Ihe hages, as specified.
I also claim the arr
of the warps is hecarrangement by whing the which uniform tension
nosses, or in other words, $I$ chaim combint of the har
nom nosses, or in other words, I claim combining with the
bereatr roller or beam, mechanism, arranged substantially
andescribe, by which the breast roller or beam may be
moved with respect to the beat oved with respect to the lay or harnesses,
he movements of the latter, as specified.



Casters-Wm. H.Green, of Meriden, Conn.
Stove Plates-Haivey Smith and F.A. Sheldon, of
Troy, N. Y.
Death of a Distinguished Inventor
Robert L. Stevens died at his residence in Hoboken, N. J., on the morning of the 20th ult., at the age of 68 years. He was a man distinguished for inventive genius, and his name has been associated with improvements navigation. His father, Col. John Stevens, navigation. His father, Col. John Stevens,
was also a distinguished inventor; was the friend of John Fitch, and the rival of Oliver Evans, of Philadelphia. Between these two -Evans and Stephens-there was always a generous strife in trying to out-do one another in getting out new and astonishing inventions relating to steam navigation. Col. John Stevens was the first inventor of the screw propeller and tubular boiler-the latter he secured by patents in America and in
England. In 1804 he constructed a steamboat 25 feet long, which was propelled by a stern wheel, had a tubular boiler, and a rotary
engine. The latter failed to work satisfactorily was taken out, and one of Watts' put in, with which the little boat made several trips on the North river, running at the rate of from four o six miles an hour; but it had many defects nder the education of such a father was Robert L. Stevens reared. He was 19 year f age when Fulton's first steamer, the Cler mont, made her first trip to Albany, and he fol lowed in the footsteps of his father by devot-
ing his energies to improvements in American ing his energies to improvements in American steam navigation. He made a number of valuable improvements, but, as has happened with all inventors, many of his plans also re ulted in failure, owing to their defective character. He was the first person, it is said, who mproved the models of our river steamers by extending their bows-giving them a fine sharp entrance and a clean run aft-thereby nearly doubling their speed, without much increasing their engine power. In 1812 he invented a destructive bombshell, which was bought by government, and for which he received a penion. When the Erie Canal was proposed to be built, he suggested, at that early date, a always owned a number of steamboats, which were kept running on various routes, especially n the Delaware and Hudson rivers, and he was the owner of the famous yacht Maria, on which he worked with his own hands, and which beat the America before the latter was sent over to Europe to vanquish the whole of the Royal Yacht Squadron.
For a number of years, lately, he has devoted himself, under the government, to the construction of a famous ball-proof floating battery, for the defence of New York Harbor. The amountexpended upon it is stated to be $\$ 1,000,000$, and an application for $\$ 250,000$ more is now pending before Congress. The outer shell of this battery consists of nine plates of iron, with spaces between them, making a wall twenty-seven inches thick. It is to be so constructed that its ends may be driven into an ordinary ship, and cutit in two. It will be of 700 feet in length, and 70 in width, with a rudder at each end. The work on this battery was conducted with secrecy in an inclosed yard, admittance to which was not permitted. It is designed to carry thirty guns of heavy caliber upon each side, and on deck four Paixhan guns. There will be furnaces in it for heating shot ; it is designed to be propelled by engines, so as to be capable of moving its position rapidly.
This famous floating battery, that has cost government so much, will not-so far as we have been able to judge,-add to his reputation. His father was the original proprietor of the Hoboken and New York Ferries, and ran horse boats on them up to 1817. After he died, Robert put on a small ferry steam-boat-the first on the North River. He owned much property in New Jersey and in this city, and at his death wes supposed to be worth as much as $\$ 2,000,000$. Few inventors havehad the same means to make experiments. He inherited wealth, and thus had many advantages over others in carrying out his inventions to success.

## Decease of a Distinguished Mechanic.

Thomas Rogers, of the firm of Rogers, Ketchum \& Grosvenor, Paterson, N. J., so well known as locomotive builders, died in this city on Saturday the 19th ult. The Paterson Guardian states that he came to that place about half a century ago, and was at that time a carpenter in poor circumstances. He afterwards became associated with God win, Clark \& Co. in building cotton and wool en machinery. About 1830 he dissolved part nership with these persons and became one of the firm of Rogers, Ketchum \& Grosvenor
Mr. Rogers was one of the best calculators and most industrious of men. In 1837 he started the building of locomotives. This Company employs about 700 men, and its en gines have a very high reputation. Mr. Rogers had been ill for several months, and at the time of his death was 65 years of age. The city of Paterson owes him a debt of gratitude

A new guano island is stated to have bee discovered in the Pacific, from which this valuable manure may be obtained withou
paying a tax to the Peruvian government.

