OUR TITLE PAGE AND INDEX.
We invite the attention of our readers to the beautiful title page printed on this number of the Scientific American. It was designed by A. Lumley, and engraved by R. 'Ten Eyck, whose skill in the art is so wel e.tested in our columns every week. As a specimen of engraving on wood, and as a felicitous design, we doubt if a more superb thing of the kind was ever published. The center of the page is adorned by the figure of Minerva, expounding the laws of natural philosophy In the upper view on the left are to be seen specimens of the unrivaled steamboats which ply on Long Island Sound and the Hudson river, and an ocean steamship; while on the raght are shown those floating palaces of our western rivers, which furnish cheap and comfortable modes of transit. Below there is represented a perfectly correct view of the interior of the principal office of the Scientific American Home and Foreign Patent Agency, showing the various examiners, draughtsmen and clerks engaged in their professional duties. On the right of this interior view is represented a portion of the United States Patent Office at Washington, while on the left is shown an exterior view of the Scientific American Office, Park Building, this city.
The Index which we publish this week will, we doubt not, be highly valued by all those readers who have preserved their numbers for binding. As the first volume of the "new series" of the Scientific American contains about double the amount of letter-press given in any of its predecessors, within the same space of time, and as many attractive and valuable features of novelty are embraced in the reading matter, we deemed it incumbent on us to correspondingly enlarge and otherwise improve (by sub-divisions) the list of contents, which will be found more ample and comprehensive than any we ever previously published, and reflects much credit upon S. F. Cohen, our careful and competent proofreader, who collated the same.
Next week we shall furnish our readers with another full page engraving of over twenty-five practical working machines, illustrating almost every department of mechanism and engineering. Thus brilliantly do we close the first, and shall inaugurate the second, volume of the new series.


ISSUED FROM THE UNITED STATES PATENT OFFIUE for thit wres ending december 13, 1859.
[Reporded Officially for the Sorentifio Ankrioan.]
** Pamphete giving full particulars of the mode of applying for


26,403.-Luther Adams, of Blanchester, Ohio, for an Improvement in Car Couplings:
I claim the combination and arrangement of the latch, c f, spring,
b, and plates, $h$ h ${ }^{\text {when }}$ whanstructed and made to operate substan-
26,404.-Peter B. Baker, of Wall Hill, Miss., for an
Improvennent in Cotton-seed Planters:
Improvement in Cotton-seed Planters:
I claim the arrangement of the teeth, $b$ b in front of the drill
 the manner and for the purpose splecified.
26,405. -Nelson Barnum, of St. Louis, Mo., for an Im proved Sash-fastener:
I claim the lover, H, the adjustable connection, $G$, and the springe,
J and $F$, and holt, I, or their equivalents, in combination with the
yielding strip, B, for the purpose specified.
26,406. -A. R. Bartram, of Redding, Conn., for an Improvement in Running Gear of Vehicles: the sleeves, $b b$, fitted loosely on the bolster and connected with the
 tially thus arranged, are used in connection with thills, or
pole attaohed rigidly to the axle, A, for the purpose set forth.
26,407.-Alexander Beckers, of New York Cit", for an Improved Double Eye-piece for Optical Instruments: double eye tubes, sight tubes, or ese picces, each of which being

26,408.-Elizabeth Bellinger, of Mohawk, N. Y., for an Improved Composition for Kindling Frre:
I. claim the inflammable gum paste composed of Kaurie gum, cam
phor and wax in about the proportions stated, when combined with
friction-matcl paste, placed on kinolers for fires, in the manner and
friction-matcl paste place
for the purposes set forth.

26,409.-John H. Birdsell, of West Henrietta, N. Y. for an Improvement for Bolting and Cleaning Clover Seed:
I claim, first, Operating the bolts, A A, so as to impart to them an
oblique alternately rieing and falling nuotion, by mexus of the doub rank, D E suide rods, F F, arms $G$ H, or their equivalents, in the manner and fur the purposes set forth: it
being understod that I claim the above only when applied to boitScond, I claim
Second, I claim arranging a trough, I, provided with endless con-
eyors, J, gas fet forth, for the purpose of returning the unhulled
eed oit tallings to be again sulpmitted to the seed or tallings to be again sulmitted to the operation of hulling, a
described.
TThis invention conslsts in giving the two bolts, when the machine in inoperation, an oblique alternating motion, so that they will alte ther, for the purpose of more effectually separating the cloverpod from the straw by giving to it a dropping motion, while at the som ime it is propelled to the rear of the machine. It further consists in providing an endless convesor so arranged that it will convey the eed which have not been effectuilly hulled back again to be submit ed to the process, for the purpose of more thoroughly freeing it of $i$ hulls.]
26,410.-William Blessing, of Jeffersonville, Ohio, for an Improvement in Sced-planters:
I claim the arrangement of the top portion of the distributor made with a semi-lunar opening and the recess under the covered portion
of the said top, when the periphery of the top is made with the chaff
penin gs, II, on either side of the reciprocating seed bar so the saie bar, by its reciprocating action shall work out the chaff throurl the he distributor
26,411.-Jeremy W. Bliss, of Hartford, Conn., for an Improved Striking Apparatus for Gongs:
I claim first Arranging the etriking mechanism of a bell substan inlly within the hollow of the bell, when the wire which actuate
that mechanism moves in lines parallel to the axis of the bell or nearly son, nsdescribed. siving catch, and a hammer and hammer wire and proper gprings
the whole constituting a striking apparatus, eubstantially as lierein the whole constituting a striking apparatus, eubatantially as herei
set fouth. 6, 412 .-John Broughton, of New York City, for an
Improvement in Grinding Mills: I claim, first, The double and reveree-acting conical grinding sur-
aces,
E
F, constructed and operated substantially as herein set forth. Second , In combination with a revolving grinder and hollow cas or drum, A. I claim the wings or frn blades, $J$, operating substan
ially as and or the purpose set forth
(This invention relates to certain improvements in metallic grindwithin a co-centric and stationary shell. Tho object is to preven the clogging and consequent heating of the mill, and at the same time obtain a perfect and rapid grinding operation with a very simple and economical arrangement of parts.]
26, 413.-Peter M. Brown, of Carrollton, Ill., for an Improvement in Portable Fences:
of my improved fence that the said rections can be securely inter ocked with each other by means of supporting posts of the within
deaccibed shape in euch a manner that the taid gections can be elther length encd
binlly as set forth?
26,414.-Isaac Y. Chubbuck, of Roxbury, Mass., for an Improvement in Fin Governors for Steam-engines: I claim combining the main spindle, C, of the fan governor with

[This invention consistsina novel mode of combining the spindle a fan governor with the stem of the regulating valve, wherebs he goveraor and valve are brought together in a very compact form, tending to dravr the said epindle out of truth and so interfering with the proper operation of the valve.]
26,415.-Hezekiah Conant, of Willimantic, Conn., for an Improvement in Machines for Winding Thread on Spools. Patented in England June 22, 1859: I claim, first, The combination, substantially in the manner apt
forth, of a traverse changer with right and left hand screws, and with nuts which are alternately in gear with such screws; the com-
bination operting as a whole substantially in the manner and for the
purno
 upon lips an sct forth.
Third, I claim a stop motion, substantially such as is described, for ion with antomatic apparatus, substantiall such as set forth, for re gulating the length of motiou and clange of direction of motion, of a
guide through which the thread 1 1 delivered on to a bobbin or sionl.
Fouth, I claim adjustable lips, substantially such as set forth, it combination with a traverse clanger, whereby spools of differen
lengths may be wound by the use of the same lengths may be wound by the use of the same traverse changer.
Fifh, I claim mountingt the presser and thread guide directly upon
or attheling it frmly to the traverse rod as before described
ately. And lastly, In combination with apparatus gubstantially such as de
scribed, for governing automatically the motions of a thread guide, claim a tension apparatus and stop motion which arrests the motion
of a machine when a threal breaks, substantially by themode of operation set forth.
26,416.-Tohn B. Cornell, of New York City, for an Improvement in Sash Weights:
weight, the peculiartty of which consists in its limping a serics of annular. grooves formed at suitable distances from cach other, in the
lower portion of said sash-weight, for the purpose set forth.
26,417.-Thos. R. Crosby, of Newark, N. J., for an Im proved Machine for Wiring Blind Rods: I claim, first, The use, in wiring machines, of the giolding mouth
ool, 1 did the wirc when bcing driven and formed, substantially as deSecond, I claim the use of the adjuatable slide the manner and for the purposes described.
Third, I claim in said machines the une of the dot, $V$. in the end
of the arm, $E$, substantially in the manner and for the purposes deFoulth, I claim the combination torecther of the driver, $O$, nnd the
viel ding mouth formed by the rack, $D$, and plate, $I$, eubstantially as described.
26,418.-R. Crowley, of New York City, for an Im-
provement in Needle Wrappers:
claim the incision of the wrapper as shown atd d, an as to expose form ellown
described.

2G,419.-Jonathan Cuuler, of Chicopee, Mass., for an Improved Machine for Making Clasps: I claim first, The sliding former, A, end the pilirating lever, $B$, in
onbination with the die ind punches, in the thanner de seribel.


 ganized dutomatic machinin, in the manner and for the purykese spe
26,420.-O. H. Dennis, of Altona, Ill., for an In.provement in Seeding-machines:
I claim the combination and arrapy ement of file cylind: G , of cir-


 hiaft, O , lever, Q , and catch, R , subetautially' as specified.
26,421.-D. S. Fancher, of Logansport, Ind., for an Improvement in Stone-loading Wagons:
 b , far the purriose set forth.
Slacond 1 claim the reeeiving table, A, in combination with the
clampe, EED, eubstuntilly ns described and for the puppese set forth.
26,422.-J. W. Fawkes, of Christiana, Pa., for an Im provement in Steam Plows:

 stolped automatically at the proper time for the purposes set forth.
Second, In combination with the above, the bruke, R, nad pawl,
when applicd to the machine to operate simultaneously, as and for the purpose described.
26,423.-Thos. B. Fogarty, of Charleston, S. C., for an Improvement in Gas Meters:
I claim, finst, The combination with the water reservoir, $B$, and
the revolving measuring dum, 11 , of an inclined feed wheel, E , sub stantially as and for the parposes set forthi.
Seol Second, The arrangement of the overflow pine, $K$, in combination
with the water reeservir, meter chamber, gnd -dry well, $L$, and pipe
 the
[This invention consists, first, in the arrangement of an inclined wheel within a separate reservoir made by elongating the ense of he meter; and infixing upon the periphery of this wheel suitable buckets which shall alternately dip into the water contained in said eservoir, and convey the same into the main reservoir, therebs maintaining a correct water line under all ordinary circumstances, in preventing the metor from being overcharged; by the emplos ment of a pipe extending up near the water line, and communicat ing from the supply reservoir to the bottom of the dry well in front of the meter, so that should any attempt be made to overcharge the reservoir, the water will escape through this pipe, and rise into the ry well and st op the flow of aas completels. Also, in a peculiar ar cationent of the water inlet pipe, so
26,424.-A. M. Ford and C. W. Warner, of Jeriche
Vt., for an Improvement in Horizontal Water Wheels:
We claim the construction and arangement of the lifter, $e$, nnd
and, asshown in Fiq. 1, and of the buckets, a nd b, combined ia band , as shown in Fig. . , and of the buckets, a and b, co.
the manner and for the pur 1 ooses substantially as set forth.
26,425.-Geo. Foster, of Brooklyn, N. Y., for an Improvement in Axles or Shafts:
I claim a shaft or axle cellular in its character, nnd composed of a casting cast upon the same, and forming the journal wheel, bearing

26,426.-W. P
himself and Saml. B. Morris, Ind., assignor to
himself and Saml. B. Morris, of Wayne county
Ind., for an Improvement in Mole Plows
bination with the rack, $F$, the whoted mole, $B$
structed and arranged and operating sulstantially as and tor the pur-
poses set forth.
Second, The
Second, TLe cam, $D$, in the described combination with the coul.
er, $Q$, rid adjustable pivoted mole, $R$, operating substantially as
and for the purpose set forth. an
26,427.-Magnus Gross, of Washington, D. C., for an
Improvement in Preserving Flesh and Mcats:
I claim the aprication of an air-tight apparatus of displacemient to
which hyd ostatic uressure is upplicd, forthc purpose and in the manWhich hydiostatic pressure is en
ner set forth in the specification.
26,428.-Chas. Hadfield, of Brooklyn, N. Y., for an
Improvement in Sticks for Exhibition Rockets:
I claim the rocket stick enclosing or in connection with a magazine
of yowder, in the manner and for the paiposes set forth.
26,429.-H. Halvorson, of Cambridge. Mass., for an
Improvement in Candle Molds:
I claim the combination with an outer tube, A, of the mner clastic
slit tube, $\mathbf{B}$, applied and operating substantially as and for the purnose set forth.
And in combition with the, elastic tube, B, I claim the tip ${ }^{\text {c. }}$, of
elastic or yielding material, applied and operating sulstantially as elastic or yielding material, a
and for the purpose described.
26,430.-Ira Hann, of Hope, N. J., for an Improved
Washing Machinc:
I claim the combination of the fixed rubber board, $n$, with the re
movable rulbber, $m$, frict ion roll, preeser carriage, $\cdot a b$, and operatin


26,431.-J. S. Harhison, of Sacramento, Cal., for an Improvement in Bee-hives:
I claim placing the hac comb, known as worker cells, in a harizon
tal or neary horizontal position, so that the cells shall be vertical nearly vertical instead of horizontal, hy the means, or their equivi-
nent substantially as set forth and represented. ents, subs andy
(This invention consists in placing the bee conib, known as worke celle, in a horizontal or neayly liorizontal position, so that the ciils
shall be vertical or nearly vertical, in order to facilitate the laburs of the bees in making the green cells.]
26,432.-Wm. Hoffman, of Benicia, Cal., for an Im proved Butler's 'Tray:
In claim, as a new article of manufacture, a single-handed butler 's
tras' furrisish with a hingc. or pivoted handle, soas to be detached or iving out of the way, to facilitate the placing or removing of ar-
ticle.e upon it, and to economize room and space in carrytug or stowing
it away, ss set forth and explained.

