29, 822.-L. P. Rice, of Adrian, Mich., for an Improvement in Slide Valves for Stenm Engines:
 scated and described
20, 823.-A. Roden, of Talladega, Ga., for an Improvement in Plows:


29, 824. - H. A. Roe, of Madison, Ohio, for an Improvement in Checse Hoops:

forth. the ends of the hoop, and used in conncction with guides, wherebs a simple, cheap, duralle and inflexible joint is obtained; one that admits of the ends of the hoop, as they are opened and closed, moving in the arc of a circle, so as to preserve the circular form of the hoop, and one, also, that will rendily admit of the hoop being enlarged and diminished, as may be required, to suit the size of the churn.]
29,825.-J. A. Roebling, of Trenton, N. J., for an Improvement in Trussed Compound Girders:
I claim a trused comnound Eirder, consisting of no iron girder
fileden with ood, combined with tension rods, having their gtrain
directly sustained by the wood
29,826.-E. S. Scripture, of New York City, for an Improvement in Wrenches:

 29,827 .-J. C. Sellers, of Woodville, Mibs., for an Improvement in Cotton Presses:
Iclaim the combination of one or two prasa, boxas, $A$ A , and 1 ime

29,828. -James Shaw, of Manayunk, Pa., for an Improvement in Gis Mills:
I claim the emplop ment of a card cslinder or cylinders, arranged
and operated as described, for the purpose set fortli. 29, 829.-A. L. Simpson, of Durham, N. H., for an Improvement in Working Ships' Sails
claim the combination and arrangement of device
Claim the combination and arrangement of devices applied to the
 the foot rope, the runner, the ropes, $\mathrm{K}^{\prime} \mathrm{L}$, and the stop-hook and eye,
as specified
G, walao claim the arrangeement of the screw, $F$, and the gurde arm,
G. with reppect to the boom-hanger nn roriling anad, At
or on the boom-hanger, as specified.
29,830.-H. E. Smith, of Philadelphia, Pa., for an Improved Wnshing Machine:
I claim the vibrating box, B, having its center of ribration rituated
below ite center of ravity as deacribed, when the momentum

${ }_{29,831 .-T}$. B. Smith, of Marietta, Ohio, for an Improvement in Lamps:
claim, first, The peculiarly
oistinaim, first, The peculiarly-constructed burner described, con-
orick tube, T, and cup, C , constructed and united in the mannel set forth,
Second, The shade, S . formed and operating as described.
29, 832.-W. H. Tendler and J. F. Moeshlin, of Cambridge, Mass., for an Improved Sofa Bedstead:
We claim the described mode of arranglng the mittresg frames
snd
 conocted therewith substantinlly as specififed.
29,833 . Nehemiah Upham, of Norwich, Conn., for an Improved Steam Trap:
 dinally with an adjustable valve stem, H , and valves, b, aubetan tially a who an add stabcre ved.
I alas claim the arrangement, as shown and dencribed, of the mov-
able carriage or plate, E, chamber, C , valve stem, $H$, and bed -plate, able carriage or plate. E, etha
$G$, for the purpose set forth.
[This invention is designed to facilitate the escape of the water which accumulates by condensation and remains in steam pipes that are used to warm buildings.]
29, 834.-W. S. Wallace, of Amcricus, Ga., for an Imprnvement in Brick Machines:
I claim the arrang ge ment of the e reasing mechnaipm, consisting of
 screens and fram
poses described.
29,835.-Able Ware, of Athens, Maine, for an Improved Surveyors' Instrument:
I claim the combination of a single graduated limb, vernicr teleacope or sighte, with substantinlly the meanns described for chancing
the position of the aforesaid parts 900 , all operating together sub the position of the aforesaid parts
etantially in the manner described.
29,836. - Ephraim Wells, of Auburn, Miss., for an Improvement in Cultivators.
I claim so connecting and arranging the sole piece of a plow in

 tantially in the mazaer andfor he parpose described.
29,837.-James White, of Bangor, Maine, for an Improved Amalgamator:
 dinally upon the inside of the cylinder, ns shown aud described, so the machine the mercurt sind water hindere, allowed and wo pe peas, through
 uartz, dirt and water, all as set forth.
[This invention consists in the employment of floats placed in a tangentiul or inclined direction into the inside of a rotary cylinder, ror the purpose of taking ap some of the quicksilver and dumping into the liquid mass of the "tailings," so as to mix them thoroughls and to bring every particle of gold in contact with the quicksilven;
and also in arranging said floats with hooks on both ende to preveat the quicksilver running of sideways.]

29, 838.-J. T. Williams, of York Borough, Pa., for an Improvement in Lamps:
I claim the employment, in combination with a lamp that is sup-
plied from na elevated reservoir of a transparent section, $F$ when


29,839.-D. Wolf and H. Wolf, of Lebanon, Pa., for an Improvement in Corn Planters:
 ontche d ohare, , , s, shat, , a, axle, D,
described, for the purpose set forth.
[This invention relatcs to an improved seed-distributing device, wherebs the com may be dropped or discharged from the hopper with regularity or in an uniform manner, and the device rendered capable of being adjusted to suit keracls of different sizes and forms.] 28,840.-D. 'T. Woodrow, of Cincinnati, Ohio, for an Improvement in Furnaces:
 air tube. J, nir chamber, $K$, and cylindrical chambirs or radiators,
F , the latter containing the deflector, $\mathcal{I}$; the whole being arranged

28,841.-W. E. Wormell, of Gcrmantown, Tenn., for an Improvement in Plows:
I claim the arrangement of the trillateral surf nce, $\mathrm{a}^{*}$, inclined
hares, $\mathbf{C}$, noldboards, $A$, and etandard, $B$, as and for the purpose shares, clam tholdboards,
shown and described.
[This invention relates to certain imprevements in what are generally known as "shovel plows"-thoso used in the cultivation of southern crops, and designed for cultivators cals-that is to say, for
erndicating weeds and loosening the eoil around or between growing plants without turning the soil and forming a furrow The object plants without turning the soil and forming a furrow. The object
 than all those of previous construction, and also to obtain a selfstampling implozient and one of greater durability.]
29, 842.-E. H. Angamar, of New Orleans, La., as
signor to himsclf and Tobias Marcus, of New York City, for an Ymprorement in Cane-coverers:
I claim the combiration aud arrangement of the twin adjustable
covering plows, $P P$, with the adjustable gcraper, $S$ substantialls as covering plows, $\mathbf{P ~ P}$ P, with the
and for the purpose specified.
29,843.-Joseph Hardey (assignor to O. Chamberlain and W. II. Babcock), of Moline, Ill., for an Im provement in Pumps:
I claim the arrangement of the axle, B, plow, $G$, beam, $H$, guide
or, $I$, rack, rame, $A$, all as shown and described, for the purnoze set forth. [This invention relates to that class of plows which are connected
a mounted frame containing a driver's seat, and are generally known as sulky or carriageplows. The invention has for its object the ready and facile adjustment of the plow, and also of the wheels wherebs the device maybe adapted to its work so as to plow or form
a furrow of greater or less depth as occasion may require, and also a furrow of greater or less depth as occasion may require, and also adnpted so as to be readily drawn from place to place.]
29,844. -Peter Louis, of New York City, assignor to himself and Hiram Wandel, of Castleton, N. Y. for an Improved V alve Gear for Steam Encines: I claim the arrangement of the two connected adjustable tappet
nieces, I In $n$, in connection with the valve yoke, $C$, and rocker, $F$ G H , substantinlly as and for the purpose described.
And I nloo claim, in combination with the nbove-described ar-
the yoke and the rocker, substantially azz and for the purpose speci
fied.
[This invention consists principally in the combinationd with a oke counected with the valve or valves emplosed for the induction the min shaft of the engine and operating within and upon the said roke to open the valve or valves at the proper time for the induction of steam, of two adjustable tappet picces fitted to the yoke, for the purpose of belag operated upon by an arm of the rocker to effect the closing of the valve or valves, and consequent cutting-off of the tcam at such points in the stroke of the piston as mas 9, 845.-J. W. Truax (assignor to himself and O. J

Smith), of Richford, Vt., for an Improved Head
Block for Sawmills
I claim the toothed segment, $K$, and arm, $I$, provided with the
 haff, $F$, and the segment
[This invention consista in a novel arrangement of parts for gaping the lateral movement of the $\log$, so that the latter may be readily adjusted previous to the commencement of
"stuff" of uniform thickncess from the log.]
29,846.-Lewis Whitehead and S. P. Kettle (assignors to S. P. Kettle), of New York City, for an Improved Spring Mattress:
We clainn, first, The combination of the brace, 2 , constructed a
described, with the spring, 1 , substantially as and for the purpo described, with the epring, 1 , substantially as and for the purpose
set forth,
Second, The combination with the slate, 5 (upon which the aprings are securred), of the beveled intermedinte block, 6 , and the hinges by for the purpose set forth.
Third, The combination of the head blocks or raising blockg, ${ }^{\circ}$ f,
with the plats to which they are attached, and with the intermediate with the slats to which they are ntached and with the intermed a
blocks which connect the lower one of these alsts to the next one
below it, when the head pieces, $g$ g, are so beveled as to underli his intermediate block sind thus relieve the hinge, as described an

29,847. -Sylvenus Walker (assignor to himself and $S$
S. Hemenway), of Boston, Mass., for an Improved

Trace-fastener:
I claim covering and protecting the projecting head, D , of the
whiffetree on the outside of the tug, by shield pie ce, C , in Clie manner and for the purpose set forth
29,848.-C. Williams (assignor to himself and J. F.
Deffenbacker), of Weston, Mo., for an Improvement in Beehives:
I claim constructing the feed npparatus so that an uniform quantit of food will niwass flow into the trough, said trough having a pir
forated cover for the bees to feed through, in the manner and for the

49,849.-G. W. N. Yost, of Yelless Springs, Ohio, as signor to himself and J. F. Watson, of Edwards
Depot, Miss., for an Improvement in Cultivators: I claim the arrangement and combination of the two beamp, $A$,
crogs brace, $K$ and $L$, movable shares, $D$, snd wheels, $G$, the whole
being conetrncted as and for the
riv-issue.
Clark's Patent Steam and Firc Regulator Co., of New York City, assignees of 'Nimothy Clark, of Bedford, N. Y., for an Improvement in Safety Apparatuses for Steam Boilers. Prtented August 21, 1847 :
I ciaim the emplosment of a flexible vessel, substantially as de-
scitibed, when the Inside of s nch vessel is combined and connccted withasiscam boilcr to be expanded by the steam generated therein,
and the outside with the mechanimm which operatcs the damper, or
At tain itg cquivaleat, for regulating the draught or blast of the furnace,
aubstantially as and for the purpose specified.

## Extensions.

T. W. Harvey, deceased, late of New York City (W. A. Harvey, administrator), for an Improvement in Machinery for Cutting Wood Screws. Patented August 18, 1846 ; re-issued Jan. 4, 1859
I claim. first, The emplogment of a pair of spring pincers which
receict the blanks one at a time and presents thens to the jaws point
oremost, substantially as deacribed. Sccond, In combination deacribed andrel and iawe or equivalen Sccosd, In combination with the mandrew blanks, the emplogmen
meang for recciving and holding the gerew of a punch and driver forinserting the blank to the required disThird, The combination of the pincers for transferring and pre-
enting the blank to the jaws or eqnivalent therefor, with the
 out of oric pincerse ndd into the asws, as a et forth.
Fourth, The combination of the movable reat with the movable cutter head, subst ntially as described, and for the purpose of Giving
support to the blank while under the operation of the cutter, and to support to the blank while under the operation of the cutter, and to
relieve the blank and geto out of the way so soon an the cutting opera-
tion is completed and this is claimed whether the cutting operasion tion is completed; and this is claimed whether the cutting operation
be nerformed on the head or any other part of the blank
Fifth, The particular manner described of conation
 sliding on the piece, ${ }^{\text {. between the check pieces, } B^{\prime} \text {, with the re- }}$ gpective adjubtments theor, combined, ,rrrnged and operating so
as to effect the setting of the tool, substantinlly as set forth, N.B.-The manner of operating the griining dies and of geparating
the blanks in the hopper and conveying them to the feeding fingers the blanks in the hopper and conveying them to the feeding fingerg,
being imilar to those described and used in the machine for cutting
the threads, are not claimed.
T. J. Sloan, formerly of New York City, now of Paris, France, for an Improvement in Wood Screvs
Patented August 20, 1846 ; re-issued Feb. 22,
1848; again re-issucd Nov. 23, 1858:
I claim, first, Making the core with $\pi$ conical point, substantially
an deacribed, in eombination with the body of a cylindrical form, or nearly so, pubstantially ns nnd for the purpose specified.
Second Making the core with a conical point, substantially as de point of a graduallg legs depth as it approachics the apex of the core
and with the several convortionson ticconical point nad on the bod eq Third, Making wood screws with the core of a conical ehape along
that part of the length of thic screw extending from where the thread hat part of the length of thic screw extending from where the thrend
 nearly cy lindrical form, nnd with a conical point, in combination
with the thread of equal pitch nloper the conical point with the thread of equal pitch nlorig the conical point snd bodg, that
is, with nll the convolutions at cqual distancesa part and of gradually
less depth from the basc to the apex of the core, substantially as deWm. Howe, deceased, late of Springfield, Mass. (Joseph tone, administrator), for an Improvement in Trus Bridges. Patented August 28, 1546 : Ieamimith first, The manner in which I have combined the arch by menns of the regulating screws that are made to bear on the arch
benm or upon the bearing blocks or wedge pieces, $c$ c, so as to effect Se same purpose.
Second, I also claim the manner of sustaining the bearing of the
braces on the string pieces by passing the metallic sockets, $\mathbf{E}$ E, braces on the string pieces by passing the metallic socket, E E E,
entirely throurh the string nieces, so that the bearing blocks, E ,
nnd the nute, Foperrate on the upper and lower ends of the eockete,
and are not effected by the shrinkage of the wood-work.

## Fratidix

Correspondents sending communications for publication in our columus are requested to avoid writing on both sides of a shect of paper. This fault, though common to persons unaccus tomed to writing for the prees, gives great tronble to the printe (eepecially in long articles), and, when combined with illegibility of hasdwriting, ofen causes interesting contributions to beregret fully consigned to our waste-paper basket.
I. \& K., of Ill.-The I'atent Office has decided that where two partics apply for a patent jointly, and a caveathas been previously filed in the name of only one of the parties, the $\$ 20$ raid into the Office at the time the caveat was filed cannot be nppreciscly the same as the one described in the cav at.
F. G. W., of La.-If you wish to gain a great deal of information in regard to the patent laws and practice of the Office in criamining inventions and granting patents, and also concerning transfers and other information regarding the management and sale of patents, inclose two three-cent stamps, and orderfrom thi office a supplement of the Scientifio Amisioan.
J. McG., of Ga.-Two of the specimens of minerals which sou have sent us resemble lumps of iron slag; the third is principally composed of lime. It would cost considerable to make a quantitative analysis of them; but, if you desire this, we can
S. C., of N. Y.-There is no patentable novelty in your alleged improvement in mowing machines. The devicesou claim is already secured under McCormick's patent. We think sou can secure a patent for your seed-sowing machine. The arrangement seems to be a good one, and we should think it might operate well H. G., of Miss.-If you will send on your Letters Pat ent. Judge Mason will examine into the validity of your claims, and sugrest
G. H., of Va.-If your model is ready, please to senc it on to us by express; and do not fail to inclose a careful description of the mod
C. A., of Pa.-In all cases of interference at the Patent Office, each party is called upon to furnish testimony as to the time when he first made his invention; and, before proceeding to ake testimony, each party must serve a notice on the other of the ime and place where the sald testimony is to be taken. You had betler, it is important that it should be well prepared.
C. R.: of N. Y.-We are not acquainted with any work on hydraulics that contains info mation, such as gou want. for plumbers.
C. B. Divis, of Lawrenceburg, Tenn., wishes to purhfm? Write to him, as above.
O. H. P. P., of Pa.-We give an illustration of Stevenson's champion wheel in this week's issue of our journal. We are obliged to you for the information coneerning the trials of
wheels at Philadelphia. The subatance of it will appear at an early date in our columns.
J. W. C., of N. Y.-The reason why we prefer a boiler with vertical tubes, is owing to the fayorable results which have een obtained with such a boiler on board the United States frigate "San Jacinto," in comparison with one having the old-fachioned tubes; but water tubes, as explained in Isherwood's "Engineering Precedents.
J. H., of Ind.-To make black varnish for iron-work, take 24 lbs . of asphaltum, fuse it in an iron vessel, and add 5 gallons of boiled linseed oil, 7 lbs of litharge, and $11 / 2 \mathrm{lbs}$. of sulphate f zinc. The two latter must be added slowls, and the whole horoughly stirred, or the oil will foamover. After boiling for two hours, add 4 lbs . of fused gum arabic, and boil two hours longer; hen withdraw the fire, and cool down. Now add turpentine, and thin the varnish to a working consistency with it. This varnish is chiefly employed for the iron-work of carriages; it is beautiful and
O. C. S., of Ohio.-The plan of propelling vessels by means of a windmill on the ship to drive a propeller in the water has been frequently suggested. We
W. B., Jr., of N. Y.-The photographic process described on page 136, Vol. VII., Sountinc Amerions, is practical; quired for exposure to the light would depend on the light and would be about three times as long as required for the daguerreo type.
B. F. H., of Mo. -The power developed by two 5 -horsepower engines win, in no case, be more than 1 -hor*e powera-no your two engines will "haul" depends upon the resistance of the driving-wheels in the ground. If the driving-wheels do not slip, your two engines are enabled to lift $330,000 \mathrm{lbs}$. in one minute to a hight of one foot. We do not know the power required to araw a $12 \cdots \mathrm{nch}$ plow through the ground. The heating-tubes side are liable to burn.
T..\& W., of Va. - There is considerable difference of opinion about the proper velocity for running water wheels; bu our largest manufacturers generally now consider about 6 feet per second of the periphers. This would give about $83 / 2$ revolutions per minute for a wheel 14 feet in diameter. The velocity of water under a head of 2 feet, is 11.344 feet per gecond- 680.64 feet per minute-and the discharge from an opening with an area of 90
 ing 14 feet, would produce 1134 horse-powers. But, as an ordinary power of the water, there would be 7 or 8 horse power cent of the power of the water, there wold be 7 or 8 horse-powe s yielled by your whee and blrea. We have 8 doubt that circular sam to the work, than is required by the best upright saws.
G. H., of Miss.-Your article is received; it is able, but too long.
O. C., of N. Y.-We suppose that the muscular power of a man would be sufficient to move a balloon of sufficient size to going a mile withan ordinary wlad; bence, the impracticability of guiding balloons.
W. C. I., of N. C.-A portable steam engine would be the best you could use for most of the operations on a plantation. We advise you to examine one of the "cow-milkers," and obtain
H. W., of Pa.-The crude oil obtained from the natural springs of Pennssivania requires to be purified for burning. It is, therefore, arst distilled in a retor in the usual way; after wards placed co a 5 , where it agitatedfor three honrs with the sediment falls to the bottom. After this, it is again agitated with about 5 per cent of caustic soda, and distilled a second time When it is for buming, if the operations have been performed rect from some wells. Dr. Antisell's work on the manufacture of coal oil-published by D. Appleton \& Co., of this city-is a work
J. F. Dance \& Bros., of Columbia, Texas, employ them weighing rbout 1,000 pounds in their grist mills, and run spindles of cate of 400 revolutions per minute. Ther employ in diameter, which the find almost impossble to keep from heat ins. Can any one of our readers communicate to them a rem edyfor thls evil, without extending the area of the bearing sur
T. H. M., of Md.-Blackberry cordial is made by boiling, for half an hour, one gallon of the juice of the berry with a ginger and four pounds of sugar; then cool down, allow it to settie, decant off the clear, add one gallon of gond spirits and bottle up Blackberry wine is made by fermenting the diluted juice of the berrv with one ponnd of white sugar to the pint of pure juice. Care ceeds to the acetous stage.

MONEY RECEIVED
At the Scientific American Office on account of Patens Office busine ss, for the week ending Saturday, Sept. 1, 1880 :-
L. C. W., of Conn., $\$ 25 ; S$, L. B., of S . C., $\$ 30 ;$ S.J. G , of N. Y. $\$ 25$; F. P. P., of La., $\$ 15$; J. C., ofS. C., $\$ 35$; J. K. G., of Pa., $\$ 25$ s. H. \& M.C. W., of Mas., \$25; A. C. C., of R. I., \$10; J. W.. of Ohio, $\$ 30$; J. H. P., of Mo., $\$ 33$; E. R. S., of Pa., $\$ 25$; J. H. H. B., R., of Ala., $\$ 55$. \& K., of M., $\$ 25$; J. M. B.. of Maine, $\$ 55$; C. A M. S., of IIl., $\$ 30$; C. J.F., of N. J., $\$ 25$; G. S., Jr., of Maine, $\$ 32$;
 N. Y., $\$ 435$; J. H. H., of N. C., $\$ 25$; D. L., of Pa., $\$ 30$; R. \& W., of N. Y., $\$ 30$; F. \& J., of N. Y., $\$ 30$; A. R, of N. Y., $\$ 60$; T. A. M., of Mass., $\$ 25$; J. A. B., of N. Y., $\$ 60$; W. T. D., of N. Y., $\$ 25$; I. P Jr., of N. Y., $\$ 25$; W. F. K., of Ill., $\$ 14$; J. D. H. of Ala, $\$ 25$; R. W. H., of N. Y., $\$ 30$; D. P., of III., $\$ 25$; C. J. S., of N. Y., $\$ 35$; R.
S., of N. J., $\$ 30 ;$ A. B. C., of Ga., $\$ 35 ;$ J. H. \& E. H. A, of Md. $\$ 30$; S. W., of Vt., $\$ 185$; G. H of Mass., $\$ 25$; P. H., of Mo., $\$ 30$ O. S., of Mo., $\$ 30$; C. G., of Ohio, $\$ 25$; C. \& E., of Ohio, $\$ 25 ;$ F. H.
K., of K. $\$ 25$; A. K., of N. Y. $\$ 30 ;$ J. P., of N. Y., $\$ 25 ;$ G. C. G., K., of Ky., $\$ 25$; A. K., of N. Y., $\$ 30$; J. P., of N. Y., $\$ 25$; G. C. G., of N. Y., $\$ 25$; D. A. B., of Ind., $\$ 10:$ D. H., of N. Y., $\$ 30$; F. S., of
III., $\$ 30$; A. T. B., of N. Y., $\$ 30$ C. R. O., of N. Y., $\$ 25 ;$ G. W. \& J. J. K., of Pa., $\$ 15$; J. H. G., of N. H., $\$ 30$; C. C., of N. Y, $\$ 30$; H. B. T., of Wis., $\$ 30$; J. A., of Conn., $\$ 30$; F. \& S., of N. Y., $\$ 39$; T. T.S., of Pa., $\$ 1$, J. S. B., of N. Y., $\$ 30$;
M. W.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Sept. 1, 1860 :
T. A. M., of Wis.; W. T. D., of N. Y.; J. P., of N. Y., F. \& C., of Towa; J. W. H., of N. Y.; W. F.. of Mass; T. T. S., of Pa.; P. C. of N. Y.; N. M., of IlL; L. C. W., of Conn.; M. W. W., of N. Y.; J.
A B., of N. Y.; A. B. C., of Ga.; G. H., of Mass; E. R. S., of Pa. A B., of N. Y.; A. B. C., of Ga.; G. H., of Mass; E. R. S., of Pa,
C. G., of Ohio; I. P., Jr., of N. Y.; C. J. F., of N.J.; J. K. G., of Pa.; B. \& R., of Ind.; F. \& B., of N. Y.; I. P., of N. Y.; C. J. S., of M.Y., f.H. K., of Kll.; C. R. O., of N. Y.; W. H. O., of N. Y.; G. W. \& J McI., of Ill.; C. R. O., of N. Y.; W. H. O., of N. Y.; G.
J. K., of Pa.; L. \& K., of Ill.; J.H. A., of Cal. (two cases).

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princ nit Office or either of the Branches. They also furnisla Circuar of fiformaticr about Foreign Patents. Commissioners of Patents,
The annexd letter, from the last three Cons inder
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