44,679.-Harvesters.-Julius Thompson, of New York

 manner that the sail orocket perfornhi the touble cunction of sus.
taining the said axic and of stiftening the frame transversely, sub.







 as sit forthil,
 1orthe centh, I Iaso claim the combination of the bevelled wheels to
getilier, by means of tlanges wilich engage with eachl otliler and pre Yent tiee separation or the teeth of the wheels by movement in the


 44,680-Apparatas for Handling Vicious Horses.-Owen Turner, of Clinton, Wis.:
 Second, The elastlo-supporting strap, $\mathbf{C}$, in combination with the controiling strap, A, whiten the taiter is arranged substantially as and
forthe purpose deseribed
Third, The combination of the controllung rein, A, fetlock straps,

 trolling straps to silp fit
stautially as described.
44,681. - Mechanical Movements.-Maximilian Wappich, of Sacramento, Cal.:

 44,682.-Horse-hay Forks. $-J$. L. Wells, of Stockbridge, I claim, frist, The


 and for the purpose set 1orth.
TThis nnvention relates to a new and improved mode of construct load readily discliarged, aud device rendered capable ofbeing easily managed by the operator.
44,683-Apparatus for Preserving Provisions.-Charles Clainm conducting coveled air to and causing the same to circulate hroan Hetho
44.68t.-Method of Stopping Bottles.-Albert Albertson, (assignor to J. N. McIntyre) of New York City:
 constructed to oper
tialy andecrived.
second in iluin



44,685.-Apparatus for Filling Bottles.-Albert Albertson, (assignor to J. N. McIntire) of New York City
claim I claim thing itulu closing the filledor or suppplied
as set torth, iy the gravitation or the sopper.
44,686.-Running Stitch Sewing Machines.-John D. Dale, (assignor to himself and A. M. Badger) of


 ing and holding g commonnor sewing gededer tirm enurvalent, for clamp.
silpping whilie the cloth is being pulted off. 44,687.-Apparatus for Cutting and Creasing Paper for
Envelopes, etc. - Martial Dimock, of Newark, N. J., assignor to Fitcll, Estee \& Co., of New York City

 pose set forth.
44,688 . - Mai
44,688.-Machine for Puring the Edging of Boots and Shoes. - Horatio Hollges, (ass,
I claim the rotary or sole edge autter or combthationo of the cannu
peran and the guard or suide, arranged together and on a shatt, as
pectiled. peciliea. elaim the combination of the tubular split, tapering shank
and its cserew and nuts, with the bur and the giud or guard, the
and 44,689.-Caster for Trunks. - Heury T. Lee, (assignor to himself and David Frost) of Jersey City, N. J.:
 [This invention consists in a yielding spring caster, applied in comVination with a cap, forming a cavty to receive the spring and shank of the caster, in such a manner that by the cap the cover of the
trunk or otier articic to which it may be attached is preventel from uplifting, and at the same time the cap forms a guide for the shank of the caster, and prevents the same being exposed to a lateral
strain.] strain.]
44,690.-Machines for Making Bozes.- Thomas C. Lu-
ther, of Lee, Mass., assignor to the American Flask and Cap Compuny, of Wi.terbury, Conn.:



This invention is more especially designed for putting the covering on external paper band or cylindrical paper boxes, for the purpose of securing the top and bottom to the body of the box. It may, howev.
boxes
44,691.-PeggIng Machine.-Joseph F. Sargent, (as

 lateral curvature.
I also elaim so
 and peg.
I also clalm operating the swing plece by the ecentric, to produc
the feed and transier of contact substantially as set forth
 Vertical motion, substantially as and for the purposeset forth.
I also clamm the employment of the swinging brake, e2, operating
 a slot in the same vertical plane with the retainer (instead or thanounh
os tin manner and for the purpose substantially Ialso claim the construction by which the blow of the awl and peg
driver bar is arrested at the bottom of the swing plate, substantially And in combination with an awl bar (or an a awl and peg dri ver
bar, laving its downward movement imparted by a spring, C
cla im the metho or regulating the frece of the blow given to the bar by
an adusting screw, ot, substantiany as shown and described.
44,692.-Priming Cartridges. - Charles Edward Snelder
assignor to himself and Thomas Poultney), Balti-

 Sevious to tring. the combination of the recessed end of the cart, ridee case eand the central cartridge pin, which form a gastight
joint by the contration of the rear of the case around the pin, un-
der the force ont the uscharge
44,693.-Buckle for Harness Tugs.- Richard Tattershall (assignor to himself and A. J. Battin), Belvit, Wis. I claim the frame, A, provided or cast with the plates, co d, in com 1ever plate, C, provided with the eccent ic projection, D, ittt
bar, $e$, substantially as and for the purpose herein set forth.
[T? his invention relates to a new and improved buckle for harness ugs, wherein the use of a tongue is dispensed with and oonsequently he perforating of the trace. $]$
44,694.-Car Truck.-Charles D. Tisdale, East Boston, Mass., assignor to himself and Joseph H. Clapp, Boston, Mass.

 44,695.-Cigars.-S. Davis, Montreal, Canada : 1 claim as a nevv article ot manuracture a medicated segar com-
posen or tooacco oeares mixed with the eeives of belladona, in the
[This invention consists of segars made of a composition of tobacco leaves mixed with a small quantity of the leaves of belladonna, specilics contained in said plants are introduced into the system of the human body together with the tobacco smoke in a finely divided state, and thereby the healing qualities of said plants are enabled to exert a much more powerfuleffect than they can when introduced into the system in the ordinarylmanner.]
44,696.-Propeller and Steering Apps.-Henry Ressel Vienna, Austria
I claim, first, The studs
combination with the socket, $c$, and globe, $d$, and with the shaitts, $C$ and $\mathbf{F}$, in the manner and for the purpose substantially as set forth
Second, The use of the cap, $\mathbf{b}$, in combination with the ball and
 Third, The grooves, i, and rings, j, applied in combination with the
ball and socketjoint,
iame, propeller screw, A , shafts, C and F , and frame, B , in the manner and for the purpose substantially as set
forth.
44.697.-Ventilating Sweat Leather tor Hats and Caps. I claim, first, The appplication to a hat or cap of a corrugated swea
lining, said corrugations running diagonally with the plane of the under side or rim as shown in the drawings, the corrugations rul-
ning around the inside of the hat or cap with the exception of a portion in front, which is smooth to fit the forehead.
Second, I claim the smooth part or the lining in front in combina-
tion with the diagonaicorrugation, as described. Third, I claim corrugating a sweat lining, in the manner shows
and specited (as ocupying the complete inner circle of the hat or
cap, with the exception of the portion in front, which is made and specitied (as occupying the complete inner circle of the hat or
cap, with the excepting of the portion in front, which is anade
smooth to fit the forehead of the wearer), substantially as shown and smooth to tit the
set forth herein.

## RE-ISSUES

1,790.-Horse-shoe.-O. A. Howe, New York City. Pa-
tented Sept. 15,1863 : climim a horse-shoe provided at its under or face side with a
groove, Having pendant projections or their cquivalent within it to
 1,791.-Water Wheel.-James Leffel, Springfleld, Ohio. Patented Jan. 14, 1862


 cally yis charging buckets, b, when
ate as and forte purpose set fort Fourthi, In combination with an upper plate, B , whose Inner sur
face shal be silightly concanve in that portion directly over the buck ets, Claim makin the surface upon when the lower edge of said 1,992 C Wor Water Whe
1,992.-Case for Water Wheels.-James Leffel, SprIng
field, Ohlo. Patented Jan. 14, 1862: I clain, first, The crown plate, A, provided with the horizontally
rooiecting rim, c, and hub, $A^{\prime}$, as and for the purpose set forth. Secont, fie cylindrical tube, R, provided with the horizontally
projecting fiange, $e$, when used in combination with plate, $A$, as



 $\underset{\substack{\text { constr } \\ \text { forth. }}}{ }$

1,993.-Cider Mill.- H. K. K. Parsons (assignnee by mesnePatented Aug. 30, 1853



 with the
set forth.

Extension.
Water Wheel.-Timothy Rose, Cortlandtville, N. Y. Patented Sept. 24, 1850



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 have no doubt that the public contldence thus indicated has been
fully deseerved, as I have alwaysobserved, in all your intercours with
thee oftice a narke decree of promptness, sinl, and fielity to thic
interests of your emplogers.

Judge Mason was succeedded by that eminent patriot and statesman
Hon. Joseph IIolt, whose adininistration of the Patent Ottice was so
 to the ollice of Postmaster -General of the United sitates, soon at ter
entering upon his new duties, in March, 1859, he aiddressed to us the
following very gratifying letter

MrssRs. MUNN \& CO.:-It affords me much pleasure to bear testi
mony to the able and efficient manner In which you discharged your
duties as Solicitors of Patents, while I had the lionor of holding th
 Very respectfuly, your obedient servant,
J. Holt

Hon. W m . D. Bishop, late Member of Congress from Connecticut,
succeeded Mr.
Holt as Commissioner of Patents. U pon resigning the ottice he wrote to us as follows:
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Office was transacted through your agency; and that I have eve found you faithful and devoted to the interests of your clients, as well
as eminently qualified to per form the dutlesof Patent Attorncys with
and


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Persons having concelved an idea which they think may be paten able, are advised to make a sketch or model of their invention, an submit it to us, with a full description, for advice. The points o novelty are carefully examined, and a written reply, correspondin with the facts, is promptly sent, free of charge. Address MUNN O., No. 37 Park Row, New York.

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The Patent Laws, enacted by Congress on the 2d of March, 1861, are now in full force, and prove to be
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shortest tirne by sending a sketch and description of the invention shortest tirne by sending a sketch and description of the invention che Government fee for a caveat is $\$ 10$. A pamphlet of advice re application by mall. Address MUNN \& CO, No. 37 Park Row, Ne" York.

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It would require many columns to detall all the ways in which the nventor or Patentee may be served at our offlces. We cordially in朝e all who have anything to do with patent prow, New York, wher any questions regarding the rights of Patentees, will be cheerfully answered.
Communications and remittances by mail, and models by express Vork

## $1{ }^{4}+4$

W. V. H., of N. Y.-A fly-wheel does not create power -the idea is absurd. It is employed for two distinct offices. First, to give uniformity to the motion of machinery in cases wher either the force or the resistance is variable. Second, to accumu late the power where a resistance greater than that of the force is cation is seen in the steam punch, where the resistance in some cation is som in cases would stop the ghe in which the $p$
lated. T. S
T. S., of N. Y.-High piston speed is a desirable ele ment in an engine, but we c nnot see how a much higher velocity can be got with a pair of double engines than with one engine of the pair. Some advantage may be derived from one helping the other ofs centers, but if one engine runs a high for by an mis A high piston speed is economical, other things being equal. Any it is suficilo New York, will furnish you with a book on ship-building.
P. S. S., of Pa.-We have no doubt that Mr. Hogg wa in error in supposing thatcanned fruit will keep better without the adiition of sugar. It is true that a small quantity of sugar in when tion of sugar will ferment more readily than a concentrated one indeed if it is sufticiently concentrated no fermentation will take
place. All fruit contains sugar or starch enough to induce fermer place. Alt the addition of more sugar will doubtless tend to pre vent fermentation.
F. E. W., of Mass.-You are mistaken in regard to the law. Unless you made a definite agreement with your workman to get up the improvement for you, you could lay no claim to it He is employed by you to do a certain amount of work for certa wages, but has not pledged to you the result of his ingenuity in de
W. T. C., of Mass.-The mistake you made was in delay ing your application for a patent, until some one has got a paten for the same thing. In order now to vindicate your rights, you ence with those allowed to the your claims put into interfer ence with those allowed to the other party. Many inventors b \& D of N Steam cause the whistle to vibrate . \& D., of N. H.-Steam causes the whistle to vibrate rapidly, that is what gives the sound. The steam strikes the thin edge percussively, or like a hammer, and that is what makes the by the number of vibrationsoccurring in a given time.
J. H. C., of N. H.-If the watch falls with the same velocity of course the shockl on the pivots of the balance whee will be the same; but with a thicker case it would fall thruugh the air with slightly greater velocity
J. F., of N. Y.-Messrs. Balliere \& Brothers, No. 440 Broadway, New York, have published a tre
troleum by Abraham Gesner, M.D., F. G. S.
H. H., of Ohio.-Your improvement in sawing machines seems to be new, but before applying for a patent we advise you to have us make a preliminary examination into its novelty at the Patent Office.
R. B. W., of Ohio.-Mr. Riehard Dudgeon, machinist, of Columbia street, this city, will furnish you with a punch that will cut an inch hole by hand in a bar one inch thick
W. C., of Pa.-Your quadrant would measure the alti thde of a star, but we should
. R. S., of Md.-The metal you send us is known as Chinese white copper. It
E. A. K., of N. Y.-The mechanical powers are the lever, the puley the wedge, the inclined plane, and the screw. N. W. F., of N. Y.-There is no better electrical ma chine for medical purposes than Dr. Smith's, the kind you now have.
R. B., of Canada.-We know of no prize offered for a demonstration of the problem to bisect an angle

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L. E., of N. Y., s25; R.C. \& M., of N. Y., \$35; B. \& G., of II 320 F. H. P., of Conn., $\$ 15$; E. T. M., of N. Y., $\$ 40$; J. B., of N Y . $\$ 20$
I. F. B., of Conn., $\$ 81$; L. W. T., of N. Y., $\$ 22$; H. S., of Tenn., $\$ 20$
I. B., of N. Y., $\$ 20$ J. B., of N. Y., $\$ 40$; C. T. W , of ra., $\$ 22$; S., of Mas., $\$ 15 ; \mathrm{W}$. Y., of N. Y., $\$ 25 ;$ G. G. P , of ra., $\$ 22$; S. S., of Mass., $\$ 15$; W. Y., of N. Y., $\$ 25$; G. G. P., of Pa., $\$ 40$; A. M.
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$\$ 20 ;$ J. S., of N. Y., $\$ 45 ;$. C. C., of N. Y., $\$ 40$; O. G. B., of N. Y.,
 S. P., of N. J., $\$ 30$; S. P. O., of Ill., $\$ 12$; A. S. M., of Ill., $\$ 30$; S. T of Ill., \$42; F. L., of Ohio, \$15; D.I. S., of N. Y., \$25; D.F. H., of Mass., \$100; E. J. K., of N. Y., \$10; L. G. K., of Mass., $\$ 20$; V. W. B of N. Y, $\$ 40$; M. J.D., of N. Y., $\$ 40$; J. L. T., of La., $\$ 15$; H. N., of R. .., $\$ 20$; H. N., of Pa., $\$ 20 ;$ P. \&S., of Conn., $\$ 20$; R. P. B., of
Mich., $\$ 20$; P. S. F., of N. Mich., $\$ 20$; P. S. F., of N. Y., $\$ 20$; R. \& S., of III., \$25; C. B., or Cal., \$60; C. F., of N. Y., $\$ 30$; J. S., of N. Y., $\$ 25 ;$ B. $\&$ L., of Cul., $\$ 15$; J
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G. K., of Vt.; H. L., of Iowa; G. F., of III.; G. N. N., of Pa.; L. E G. K., of Vt.; H. L., of Iowa; G. F., of III.; G. M. M., of Pa.; L. E,
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L., of N. Y.; C. F., of N. Y.; S. R., of Pa.; A. J. S., of Cal.; R.C. M., of N. Y.; J. S., of N. Y.; E. T. M., of N. Y.; C. S., of N. Y.; M. J. M., of N. Y.; J. S., of N. Y.; E. T. M., of N. Y.; C. S., of N. Y.; M. J. f., of Conn.; C. A. B., of Cal. ; D. II. I., of III.; S. P. O., ,. III.; N T., of Ind.; A. S. M., of III.; G. (4. P., of Pa.; M. K., of Othe.

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