atent Claims

ISSUED FROM THE U.S. PATENT OFFICE

FOR THE WEEK ENDING APR L 16, 1867.

PATENTS ARE GRANTED FOR SEVENTEEN YEARS, the followin

In addition to which there are some small revenue-stamp taxes. Residents

Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much other information useful to investors, may be had gratis by addressing MUNN & Co., Publishers of the SOLENTIFIC A MEBIOAN, New York.

63,779.-Mode of Uniting India Rubber with Leather.-

Aaron C. Andrews, New Haven, Conn. I claim uniting india rubber to leather or other material by forming grooves or creases in such material into which the rubber is pressed previous to vulcanizing, as and for the purpose specified.

to vulcanizing, as and for the purpose specified.
63,780.—SAW MILL.—Asa Bee, White Oak, West Va, First, I claim the application of the guide rollers N, or their equivalents to the stirups J, substantially as and for the purpose specified.
Second: I claim the V-shapet adjustable and reversible guide bars O, when constructed and applied substantially as and for the purposes set forth. Third, I claim the clearers P, when constructed and applied in the manner and for the gurpose explained. Fourth. I claim the combination of the springs T T3 T5. and lever T', when constructed and operating as described to communicate motion from the saw sash to the grip iron. Fifth, I claim the spring T3, when constructed and adjustable in the saw to the grip iron.
Sitch, I claim a grip iron when constructed with adjustable gripping blocks VI v2 substantially and for the purpose specified. Seventh, I claim the adjustment of the blocks WI W2 by means of the arm X, and clamp Y, as and for the purpose ocsribed.
63,781.—MoLD FOR PIPE CASTING.—Henry M. Bird Cam-

63,781.-MOLD FOR PIPE CASTING.-Henry M. Bird, Cambridgeport, Mass. I claim the combination as well as the arrangement of two or any other suitable number of the flange finishing and core supporting flasks D, provided with masses E, of molding sand, or its equivalent with a pipe mold, A B, and its core C, the whole being substantially as and for the purpose described.

63,782.-HARNESS BUCKLE.-George S. Caldwell, Syracuse,

I claim the combination and arrangement of the buckle as herein set forth, viz., with the toothes jaws B B, resting in the edges of the frame, and bearing upon the edges of the tug or strap by means of the pins and inclined slots i k, or equivalent as specified.

63,783.-AXLE Box.-Neil Campbell, (assignor to himself and

63,783.—AxLE Box.—Neil Campbell, (assignor to himself and William Frazier,) Brooklyn, New York.
First, I claim the flanges a s' on the exterior of the pedestal in combination with the grooved and shouldered removable base plate C, substantially in the manner and for the purpose described.
Second, The removable base plate constructed so as to be applied as des-crihed and also with sock sets to receive a tie rod and end braces D D, substan-tially in the manner shown and described.
Third, The combination of the brackets E', studs d d', and solid springs F, F subtaintially in the manner and for the purpose described.
Third, The combination of the enlarged sleeves K, with a grooved face bearing block H having flanges 11, and plin J, in combinat on, as a means for secur-ing a removable sleeve K, to the arm of a railroad car axle, substantially as herein described.
Sith, The box E, with brackets E', on its sides and the pedestal with semi-cyllodric chambers and with aca pA, so that solid springs F, F, may be em-ployed and contined in place by means of the removable base plate C, all sub-stant'ally in the manner described.
63.784.—MACHINE FOR MAKING DRAIN WATER PIPES.—Chas.

-MACHINE FOR MAKING DRAIN WATER PIPES.-Chas.

63,764 — MACHINE FOR MAKING DRAIN WATER FIFES.—Unas. Collier, Charlestown, Mass. I claim a clay cylinder or receiver B, in combination with an hydraulic cylinder operating a platon or plunger **b**, for electing the clay from the re-ceiver in the required form for a ppe or the substantially as described. I also claim connecting the head or plunger D, with the piston E, of the hydraulic apparatus by means of a screw e, so that it may be moved toward and from the clay-cylinder by hand for the purpose specified.

63,785.—PAPER FILE.—Germond Crandell, Washington. D. C. J claim a bill and paper file made as herein dercribed or its substantial equivalent. 63,786.—MILLSTONE FEED.—Michael DeCamp, South Bend,

Ind. First, I claim the separator constructed and operating substantially in the manner herein described and applied in the relation substantially as shown and described to the millistone feeder and the eye of mill stones for the pur-pose set forth. Second, 'he construction of the month of of the separator in the manner substantially as shown and described, so that the separator is adapted to be applied to a mill and to operate substantially as described, for the purpose set forth. Third, The arrangement of a millstone feeder and a separator in the rela-tion to one another substantially as shown and described and for the purpose set torth.

set forth. The raised step e e i, arranged on an inchred support and in rela-"Ourth, The raised step e e i, arranged on an inchred support and in rela-tion to the inclined partition b, and the passage d, substantially as and for the purpose described.

Reported Officially for the Scientific American

being a schedule of rees:--On filing each application for a Patent, except for a design... On sing each application for a Patent... On appeat to Commissioner of Patents... On application for Extension of Patent... On granting the Extension... On filing a Disclaimer. On filing a pplication for Design (three and a half years)... On filing application for Design (seven years)...

of Canada and Nova Scotia pay \$500 on application.

Ket Or

C

N. Y.

63,784.-

Ind.

Ill.

stone pavements amounts to from 30 to 50 per cent, enough, if only half true, to pay for laying new pavements of wood every three or four years. He sees no reason why our streets could not be made as easy for horses and vehicles as the Park avenues, if payed on the Nicolson plan.

 $\mathbf{286}$

Another praises the pavements of Buffalo which are of the "Medina Rattlesnake stone" which has been well tested there and in Chicago.

We do not know the peculiar advantages of the Buffalo pavements, although we have visited the city several times, but there can be no doubt but improvements can be made on the pavements of New York. It would probably cost much to transport the Medina stone to this city, while the material for the Nicolson pavement can be obtained at every lumber yard.

----AMERICAN EXHIBITORS AT THE PARIS EXPOSITION.

The following list of the articles of American Manufacture contained in the sixth group of the American Department of the Exposition in Paris, embraces instruments and processe of common arts:

G. J. Wardwell, Poultney, Vt.—Stone channeling and quarrying machine. R. C. E. Ganjot, Tamaqua, Penn.—A model of apparatus for breaking up coal; a model of nachinery for lifting from mines. J. R. Harrington, Brooklyn. N. Y.—Self-rarifying tweer for manufacturing iron in blacksmith forges, or in any fire where a blast is used. Herman Haupt, Philadelphia, Pa.—A gang of three steam drills de igned for tmeling.

mag

H. Allen & Co., New York.—One combined clipper mowing and reaping

Walker A. Wood, Hoosick Falls, N. Y.—One self-delivering combined reaping machine. Joel A. Hall, Columbus, Ohio.-Cotton chopper, garden cultivator, and

A.H. Wellington, Woodstock, Vt.- Root cutter. Oscar F. Burton, New York.-On e plow made in the style of the Moline

Oscar F. Burton, New York.-One prow made in construction plow now in use. John G. Perry, Kingston, R. I.-One mowing machine. D. C. Colby, New York.-Flour sieve, coffee mill. Joei Nourse, Boston, Mass.-Plows with changeable furrow boards for plowing sod and stubble lands: swivel plows, adapted to level lands and hill-sides; expanding horse loose with changeable teeth; Brown's hay tedd.r; horse hay rake; Harrington's patent s.ed sower and cultivator combined; Howe's patent seed sower and cultivator combined; Adams' patent farming mill and grain separator; hand hoe. Emery & Co., Chicago, III.-One American hog tamer. H. H. Munroe & Co., Rockland, Me.-Rotary harrow. Deere & Co., Moline, III.-One steel plow. A. J. Fullam, Springfield, VL.-Machine for shearing sheep and clipping hores.

or es. Morris, Tasker & Co., Philadelphia, Penn.—Hay-band machine. Hall & Spear, Pittsburgh, Pa.—Iron center plow. Silas C. Herring, New York.—Bullard's patent hay tedder. Collins & Co., New York.—Stel plow. J. C. Bidweil, Pittsburgh, Pa.—Comstock rotary spader, also plows. Jacob Brinkerhof, Auburgh, N. —A hand indian-corn sneller, separator

Made and cleaner. M. Alden & Son, Auburn, N. Y.-A horse hoe, for cultivating all kinds of heed crops. Wheeler, Mellck & Co., Albany, N. Y.-Palmer's excelsior horse pitchfork. Partriage Fork Works, New York.-Manure, spading, and hay fork, partriage and notato diggers. hoed crops. Wheeler, Melick & Co., Albany, N. Y.—Palmer's excelsior horse pitchfork. Partriage Fork Works, New York.—Manure, spading, and hay fork, rakes, and potato diggers. Luc. Langstroth & Sons, Oxford, Ohio.—Two improved movable comb

beet ves. liams, Wallace & Co., Syracuse, N. Y.—Johnson's Great We tern self

raking reaper. Samuel J. Wallace, Carthage, Ill.—Grain binder, self-binding and raking

Saminel J. Wallace, Carthage, Ill.—Grain binder, self-binding and raking harvester. John W. Free, Richmond, Ind.—Fanning mill and grain seed separator; improved shoe for grain and seed separator; improved straw cutter; grain and seed sower. Frank Fuller, New York.—Machine for husking Indian corn. John B. Seymour, Pittsburgh, Pa.—Cotton planter. S. T. Bacon, Boston, Mass.—Nourse's universal plow. Jias H. Wooldridge, Venisee, Ill.—International shovel plow. James A. Saxton, Canton, Ohio.—Ohio reaper and mower. Gileden & Williams, Wood's Hole, Mass.—Samples of guano. John H. Noyes, Oneida, N. Y.—Specimens of animal traps, from the rat trap to the grizzly bear trap.

to the grizzly bear trap. George R. Baker, St. Louis, Mo.-Dough-kneeding machine, for family

Bec. D. H. Goodel, Antrim, N. H.-Lightning apple-parer. S. W. Palmer, Auburn, N. Y.-Combined clothe wringers, manglers, and

ironers. Metropolitan Washing-Machine Company, New York.—Washing and wring

ing machine. D. M. Somers, Washington, D. C.-Self-acting tumbler washer. Howard Tilden, Boston, Mass.-Bou-ton flour and sauce sifter; self-feeding

Howard Tilden, Boston, Mass.—Bou-ton flour and sauce sif.er; self-feeding topacco cutter. Chas. A. Harper, Rahway, N. J.—Hand flour mill. Morris Tasker & Co., Phikudelphia, Pa.—Wringing machine. Windic & Co., New York.—Mcchanical brush for aweeping carpets. F. K. Sargeant, Boonton, N. J.—Alarm coffee boller. J. Ward & Co., New York.—Union washing machine; Union clothes wring-

er, Joseph Scdgebeer, Painsville, Obio.-Farm corn meal and feed grinding mill; crank hand cottage or army mill; house coffee and spice mill. Louis Elsberg, M. D., New York.-Peat-steaming and pressing machine. Howard Tilden, Boston, Mass.-Champion egg beater. John Ross, Stapleton, N. Y., Conical Burr-stone mills with flour-dressing methods could mill apparent.

machines and mill apparatus. Elting Bolt and Duster Company, Cincinnati, Ohio.- Bolt and duster ma

chine.
Geo. Purrington, Jr., New York.—Carpet sweeper.
Ghas H. Hudson, New York.—Ches washer and Finser.
Schultz & Warker, New York.—Glass fountainsfor mineral waters.
Joseph Dixon & Co., Jersey City, N. J.—Plumbago or melting pots, stove-polish, and other articles of plumbago.
E. A. Pond, Rutland, Vt.—Gle-spring-power portable gas machine.
Hicks Engine Company, New York.—Steam engines of 5, 15, and 60 horse-power.

ower. (Y. I). Andrews & Bro., New York.—Oscillating steam engines. Corliss Steam-engine Company, Providence, R. I.—One Corliss steam

gine. T.R. Pickering, New York.—One stationary and one machine engine reg

Joseph P. Pirsson, New York.—Scamless copper and brass tubes.
 L. H. Omsted, Stamford, Ct.—Friction clutch pulley,
 Geo. Dyvisht, Jr., & c. Springried, Mass.—Steam pump,
 P. 11. & F. M. Roots, Comporsville, ind.—Rotary blower.
 Joseph Sheldoo, New Havan, Com.—Wate -pressure regulator.
 Francis S. Fease, Budalo, N. Y.—Atmospheric and hydraulic pump for

Joseph Sheldoo, New Mary, N. Y.-Atmospheric and a structure of the structu Joseph Firmenca, Bunao, N. I. – A variety of fances made of nard rub-ber and wood, Philander Shaw, Bostou, Mass.–Shaw's Union double-action air engine. James A. Robinson, New York.–Erlesson caloric pumping engine. 15-inct

cylinder. Joel Bryant, Brooklyn, N. Y.-Bushing for ships' bl cks; hand grinding

Sonthern Cotton-Gin Co., Bridgewater, Mass.—Saw cotton gin of 60 saws; roller cotton gin, 6-inch rolls. H. L. Emerty & Son, Albany, N. Y.—American universal cotton-gin, H. L. Emerty's patent; condenser, with cleaner and delivery attachment; i one-horse endless rallway horse-power, with speed-covernor attackment. Chas. A. Shaw, Biddeford, Me.—Six spindle steps, with spindles; card-grind-ing machine.

ng machine. C. L. Goddard, New York.—One mestizo burring picker. George Crompton, Worcester, Mass.—Loom for weaving woolen fancy cas

George Crompton, Worcester, Mass.—Loom for weaving woolen lancy cas-simeres. J. E. Palmer, Middletown, Ct.—Circular loom for weaving plain and twilled coverings for cores and other tubular tabrics; circular loom to weave fing and drying wide and thin fabrics. Morris Opper, New York.—Power loom for weaving fabric with gores or irregular surfaces, such as corsets. A. B. Prouty, Worcester, Mass.—Card-setting machine for the manufacture of card clothing for cotion and woolen machinery. Hall Manufacturing Company, Beston, Mass.—Bazon's improved twisting machine for laving up lines, cords, etc. Bruen Maufacturing Company, New York.—An attachment for making the double loop stith; an attachment for making the thin thread stitch for moleline for laving up company, New York.—An attachment for making the double loop stith; an attachment for making the thin thread stitch for dis-forder.

double loop stitch; an attachment for making the thin thread states for the proldery. Lathrop Sewing-machine Company. New York.—Sewing machines in dif-ferent styles, embracing the entirely new principle of working direct from two ordin arrysnos. New York.—Sewing and button-hole machines of vari-ons styles, with samples of work. A. B. How e, New York.—Sewing machines, with samples of work. Weed Sewing-machine Company, New York.—Sewing machines adapted for family and manufacturing purposes. Charles A. Shaw, Edderord Mec.—Foot and hand knitting machines of va-rious styles and specimens of their work. Howe Machine Company, New York.—Sewing machines; four styles. mos L. Wood, Boston, Mass.—Buttonhole and embroidery machines. Eiskeneyer Hat-blocking Machine Company, New York.—Leather.sewing machines, with specimens

Eiskemeyer Hat-biochug Jaconic Congress, and blocking machine. Halligan & Shapter, New York.—Leather sewing machines, with specimens of harness, boots, shoes, belting, etc. Continental Manufacturing Company, New York.—Crank-motion shuttle

wing machine. Joseph W. Bartlett, New York.—Sewing machines, double lock-stitch and

sewing machine. Joseph W. Bartlett, New York.—Sewing machines, double lock-stated and single thread. Henry H. Reed, Philadelphia, Pa.—American buttonhole, cording, and com-bined sewing machines. Bartram & Fauton Manufacturing Company, Danbury, Conn.—Sewing and buttonhole machine. Florence Sewing-machine Company, New York.—Reversible feed, lock stich sewing machine, with self-adjusting tension, making four distinct stiches.

titches. John J. Folsom, Winchendon, Mass.—Globe sewing machines. John J. Folsom, Winchendon, Mass.—Globe sewing machine. Thos. J. McArthur, New York.—Sewing machine. J. M. Sterling, Paris—Sewing and embroidery machines, and specimens of heir work. ir work. Illiptic Hook Sewing-machine Company, New York.-Sewing machines,

Einfale Hook Sewing-machine Company, New Fork.—Sewing machines, two styles. Chas. Houghton, Boston, Mass.—McKay sole-sewing machine. Emile Nougarit, Newark, N. J.—Hat pouncing machine. Mumforn, Foster & Co., Detroit, Mich.—Specimens of boot trees and lasts. John B. Winslow, New York.—Double serpentiae moulding machine. Wright & Smith, Newark, N. J.—Seroll-sawing machine. H. S. Jacobs, Portland, Oregon.—Wheel-tressing machine. C. B. Rogers & Co., Norwich, Conn.—Molding machine for making lead pen-ing, and sticking molding; iron-frame pencil machine for making lead pen-ing, and sticking molding; iron-frame pencil machine for making lead pen-ing, and sticking molding; iron-frame pencil machine for making machine, double copes; small power mortising machine; large foot mortising machine. Fenn & Feiber, St. Louis, Mo.—Zimmerman's mortising and slotting ma-chine.

Fenn & Felber, St. Louis, Mo.-Zimmerman's mortising and slotting ma-chine. Baxter D. whitney, Winchenden, Mass.-Cylinder planing machine, two horse-power; gange lathe, two horse power; smoothing machine, one horse-power; Wardwell's patent saw bench, one fourth horse-power. American Saw Company, New York.-Circular saw, with Emerson's patent movable teeth. Warren P. Miller, San Francisco, Cal.-Adjustable teeth for saws. Cooi, Sherman & Co., Glens' Falls, N. Y.-One barrel machine. Gegener & Weller, New York.-Patent liberty quarto medium job pre s. Joh 1 E. Sweet, Syracuse, N. Y.-Composing machine. Pat ick Welch, New York.-Compositor's type case; also, a machine for dressing printers' types. Geo. B. Buell, New York.-Compositor's type case; also, a machine for heading, one thread jug, one shaving, and one nicking machine. Henry Winser, Philadelphia, Pa->bot and shell polshing machine. Henry Winser, Philadelphia, Pa->bot and shell polshing machine. Wickersham Nall Company, Boston, Mass.-Wickersham nall machine. Henry Smith, Salem, Mass.-A method of equalizing the power of coiled Spring Departies New York.-Circar machine in one traction.

John Prentice, New York.—Cigar machine in operation. John Prentice, New York.—Cigar machine in operation. New York Quartz Company, New York.—Emery wheels. Hoylen & Graffling, Dayton, Ohio.—Sel: feeding tobacco cutter. Wood Brothers, New York.—One phaeton, one buggy. Brevet Major Gen. D. H. Rucker, Chief Quartermaster's Department of Washington, D. C.—United States Government army wagon and six ets of

Brever Major tem, h. A. Rucker, Unier Quartermaster's Department of Washington, D. C. – United States Government army waron and six ets of nucle ha ness. A. V. Bianchard & Co., Palmer, Mass.—Plough and shovel handles of bent wood, Photographs of machinery oo which the articles were made. Join Scott, Ocelo, Fia.—One earriage wheel. James Hall & Son, Boston, Mass.—One top buggy. Angustus Harrington, Warsaw, N. Y.—Eisstic strsingle attachment. Chas. Stalinnan, Natchez, Miss.—Tine is 4's saddle. Chas. Weilman, New York.—Ladies' and gentlemen's saddles. W. G. Creamer, New York.—Model of an English railway carriage with Creamer's safety brake attached; model or samples of automatic ventilators; samples of periorated ventilator. B. J. La Motie, New York.—Model of a portable house. G. Easton, United States Consul, Bristol, England.—Model and plan of a street railway and carriage. Andrew Foster, New York.—Graham's locomotive spring balance, design-ed to regulate and control the saiety valves of the boilers of locomotive steam engines. Grant's Locomotive and Machine Company, Paterson, N. J.—Passenger lo-comotive engine and tender complete. Henry W. Waraer, Greenield, Mass.—Cast-iron chairs with two pieces of railroad iron. J. L. Boudt, Rochester, N. Y.—Steel-capped rail for railroads,

Comotive counter, Greenfield, Mass.—Cast-from Grant. railroad iron. J. L. Booth, Rochester, N. Y.—Steel-capped rail for railroads, Star Metal Company, New York.—Star inetal railway journal bearing. Thos. S. Hall, Stamford, CL.—Electric railroad switch alarm. John Stephenson, New York.—First-class street railway car, constructed with top scata, as apated to the European mode. S. E. & . L. Morse, Harrison, N. J.—A new mode of laying and raising tele-granhic cables.

S.E. & L. Moïse, Harrison, N. J.—A new mode of laying and raising tene-graphic cables.
 A.F. Ward, Philadelphia, Pa.—A chart and pamphlet representing combi-nations of colors arranged in geometrical order, by which the various combi-nations of colors arranged in geometrical order, by which the various combi-nations of colors arranged in geometrical order, by which the various combi-nations of colors arranged in geometrical order, by which the various combi-nations of colors arranged in geometrical order, by which the various combi-nations of colors arranged in geometrical order, by which the various combi-nations of colors are set to be a set of the se

180. B. S. Huntington, New York.—Lever blind fastener for windows. Arthur Huston, Bristol, Me,—Miter box, with scale for sawing miters. Johnson Rotary Lock Company, New York,—Locks, padlocks,

63,787.—SASH SUPPORTER.—Herman Ehle, Utica, N. Y. Iclaim the employment and use of one or more rods or bars C, attached to the sash and operated anhetanitally as described. I also chaim in combination with said roads or bars C, and sash B, the nuts or disks D, and thum h sc ews E. the whole being attached and operated sub-stantially in manner described, for the purpose mentioned. Joinson Hoary Localy Longton, Act and Action Provided Holds, etc., Morris, Tasker & Co., Philadelphia, Pa.—Boller fines, tubes, valves, cocks, fire plugs, heating coils, etc. Yale & Wirm Mannfacturing Company, Shelburne Falls, Mass.—Various kinds of bank, safe-toor, and other locks. New York Quartz Company, New York.—Specimens of building stones. Samuel Nicuolson, Boston, Mass.—Model of an improvement in wooden

63,788.-TRESHING MACHINE.-George Eichenseer, Waterloo,

(106) Bryani Drown, a. Y. Zowar, a. Y. Scales or weighing machines of various patterns; also weights of all standards. Junus Judson. Rochester, N. Y.—Gradnating governor forsteam engine. Crosby, Butterfield & Haven, New York.—Hot-alr engine one borse-

Crosby, Butterfield & Haven, New York.-Hovair engine one noise-power. Thos, J. Jones, New York.-Spring for steam-piston packing. War ren E. Hill, Brooklyn, N. Y. -Hill's patent grate-bars. Dr. J. H. Beidler, Lincoln, III.-Beidler's hydro-caloric light or steam lamp. Nat. anijel Jenkins, Booton, Mass.-Valves and cocks, Howe Scale Company, Brandon, Vt.-An assortiment of scales. Steam Syphon Company, New York.-Steam syphon pump; model of rail-road water-station pump. John B. Root, New York.-Root's trunk engine, five horse-power. J. B. Tupper, New York.-Furnace grate bars. H.C. Dart & Co., New York.-Twelve horse-power rotary steam engine steam pump.

H. C. Daft & Co., New York.—Twelve horse-power rotary steam engine steam purp.
Tyon & Isaacs, New York.—Self-feeding hand and power drill fordrilling holes in metals, etc.
H. Hart ison, San Francikco, Cai.—Steam purp.
James Cochrane, New York.—Model of a method of lubricating.
Wm. Sellers & Co., Philadelphia, Pa.—Planng machines, lathes, drills, slotter, boring mills, bolt-cutters, stocks (dies, taps, and tap wrenches); elifard injectors, with self-adjusting water supply; shafting, to drive above machinery; assorted lot of minished hanzers, complings.
T. H. Olnstted, Stamford, Ct.—Self-teeding ratchet drill; spring-top ofler.
We bete & Co., Springfield, Mass.—One engine lathe, with improved cross feed, and Vanhor's patent tool cleaver, bott thread, and nut-tap machine; isotter, bott and muttheread, and muttheread, and mutheread, and Machine Co., Boston, Mass.—For's screw-cutting lathe, with Nago's screw attachment.
Proven & Sharee, Providence, R. L.—Revolving head-ascrew machine; and Sharee, Providence, R. L.—Revolving head-ascrew machine.

Allight can be of the animated of the second state of the sected we defined in the with Nagon's secrew state interview of the secrew machine for manufacturers of fire-arms, sewing machines, and other light machine work; also, a universal milling machine. — Various sizes and styles of cast-iror A. H. Brainord, Ageut, boscon, Mass.— Various sizes and styles of cast-iror and the second styles of the second style second styles of the second style second styles of the second style second style second style second styles of the second style secon

vises. Bates, Hyde & Co., Bridgewater, Mass - Power cotton gin; hand cotton

ing.

 Bander, Morenet, Doston, Mass. - Adder of all improvement in the provement in the provement is a second seco Louisville Cement CG., Louisville, Ky.-Specimens of cement. Dodes, Macneate & Urban, Cincinnati, Olio.-Bank locks. Henry J. Newman, Andover, Mass.-Imitation of American woods, painted in oil and altemper colors on whitewood plank. Chapin & Wells, Chicago, III.-Model of a swing bridge. H. D. J. Fratt, Washington, D. C.-Working model of propelling apparatus. Joseph Duffy, Paterson, N. J.-Miniature sectional model of iron-olad ships. Capt. J. M. Hudson, Brooklyn, N. Y. -Specimen of rigging for ships, having for its object the raising of the topsail yard. J. B. Van Deusen, New York.-Model of a yacht, called Fleetwing. Elisha P. Beckwith, New London, Ct.-Miniature fishing smack. Fred. E. Sickles, Oak Dale, Pa.-Working model to illustrate the effect of controlling the rudders of steam vessels by power instead of by hand. E. L. Petry, New York.-Life-saving rait for saving human life at see. C. L. Jakioli, New London, Ct.-Haboli's for saving human life at see. W. Page, New York.-Life-saving take. W. Page, New York.-Elfen pars of coars of different styles. William Oscar Reim, M.D., svinghtel4, Ohio.-Hydrostatic scale for ascer-taining the tonnage of freight of vessels.



EXTENSION NOTICES.

Isaac Brown, Cecilton, Md., having petitioned for the extension of a patent granted to him the 19th day of July 1853, for an improvement in Mode of Driving Saws, for seven years from the expiration of said patent, which takes place on the 19th day of July, 1867, it is ordered that the said petition be heard at the Patent Office on Monday the first day of July next.

Enoch Hidden, New York, N. Y., having petitioned for the extension of a patent granted to him the 21st day of June, 1858, reissued Sept. 8th, 1863, and again reissued March 15th, 1864, for an improvement in Side Light for Ships for seven years from the expiration of said patent, which takes place on the 21st day of June, 1867, it is ordered that the said petition be heard at the Patent Office on Monday the 17th day of June next.

III. I claim the combination of the screw bolts, a and a', substantially as and for the purpose set forth. Second, The combination of the shatt, e, its bearing block, e2, and sliding bar, e3, the wars, e4, with the screw bar, e5, and handle nut, e6, all acting substantially as and for the purpose set forth. Third, The combination of the pulleys, e11 and e12, for packing the driving band, D, substantially as and for the purpose set forth. Fourth, The cuter teeth, h9, for cleansing the crevices between the flanges, h8, and the feed plate, h4, as set forth. Fifth, The application of the drop guide plate, k5, as set forth. Stynth e combination of the conduit, o3, and o4, with the door, o5, sub-stantially as and for the purposes set forth. Seventh, The combination of the separators, k k1 k2, with the return feed plate, k5, chanf di-change plate, k4, and guide drop plate, k5, all with the alf currents adjusted and directed by the vane, p4, substantially as ef forth. 63 789 — APPARATUS FOR REFINING AND DISTILLING PETRO-

63,789.—Apparatus for Refining and Distilling Petro-

55,789.—AFFARATOS FOR REFINING AND DISTILLING PETRO-LEUM, ETC.—John Ellis, New York City, and Edward C. Hattell, Binghamton, N. Y. First, we claim the using of steam and super heated steam for the purpose of separating and removing the more volatile from the less volatile portions of petroleum, kerosene, binzine, naphtha and turpentine, while these fluids ref in a state of spray or drops, as specified. Second, The oil pipes, E. and K. and condensing tubes, D and I, when con-tructed and arranged in relation to each other, and a retort, as and for the purpose specified.

structed and arranged in relation to each other, and a retort, as and for the purpose specified. Third, The separating tank tub, or tube, in combination with an upper and under retort, for the purpose of separating the water and earthy impurlies from the oil before the latter flows into the lower retort. Fourth, The using in a retort scraps of metal wire, wire sieves, nails, turn-ings, or other metallic or earthen materials, or even vegetable substances, which will either form a screen or a porous mass through which oil can trickle down so as to expose a large surface of it to the action of heat. Fifth, The using in a retort or retorts of a series of nearly or quite horizon-tal plates, shallow pans or shives, which may lie concave or with edges turned up, plain or convex, perforated with from one to numerous openings, or without any openings, over which oil can flow or drop, or run from point to point, in combination with the pipe, I, and coil, K, so as to expose a very large surface to the action of steam, and to form a very large evaporating surface.

Surface. Surface. Sixth, The using an agitator in a circular or nearly circular retort, for the purpose of throwing the oil into a spray or drops, so as to expose every drop as far as possible to the direct action of heat, and allowing the oil or fluid being distilled to flow through the retort in a steady stream, but not to accu-mulate in any considerable quantity in the re ort, subs antially as repre-sented in the drawings.