5-DRESSING FURS.-I wish some cheap way of dressing skins with the fur on, and polishing the hair after the skin is dressed ?-J. РH.

6.—DISTILLING TAR.—How can I distil pine tar so as to separate the grosser parts from the finer? What sort of still should I use, etc?

7.-IMITATION ROSEWOOD MOLDINGS.-How are imitation rosewood moldings made? How is the plaster made to adhere, and how are they finished ?- W. S. H.

8.-POTTER'S CLAY.-How is potter's clay mixed and tempered ?--G. F. C.

9.-EXPLOSION OF SCRAPPING FURNACE.-An explosion occurred in one of my furnaces recently, which I cannot explain or account for. The furnace is what is known as a cinder bottom scrapping furnace, with water chill inside, built very strongly, in use only two weeks, using mixed hard and soft coal, with blast. It exploded with great violence, just after the heat had been drawn, when the door was open, and when the heator had just taken his rabble out of the water bosh, and thrust it into the furnace, on the cinder bottom. The explosion was similar to the discharge of a cannon, and filled the mill with smoke and steam. The roof of the furnace was lifted, though not blown off, and the nine doors in the boiler wall were all blown open. The heator said no water had been put into the furnace to cool the bottom, as he had been accustomed to do, but explained it as resulting from the contact of a little wet cinder, about the size of a walnut, sticking on to the rabble, and coming in contact with the molten cinder in the furnace. But this explanation did not satisfy me, and as the occurrence was new to me, and very dangerous, and might be very expensive, I desire to ask the cause of the explosion, and the remedy. A similar occurrence happened at one of the large mills here in Reading, on the same day, and a few years since, at Phœnixville, Pa., a furnace was leveled with e ground from the same cause. Water is frequently thrown into the furthe nace to cool the bottom, without danger, and the heator says an explosion might not happen again in five years with the same treatment. What ex ploded, and what was thecause ?-J. H. S.

10.—SAWING SOFT TIMBER WITH CIRCULAR SAWS.—With whatform of teeth-filed square or shearing on top-can the best results be obtained ln sawing soft timber with circular saws?-A. O. B.

11.—PRESERVING STARCH AND PASTE.—Is there any substance that, when put into boiled starch and flour maste, will preserve the starch and paste in a perfect state for months? Something that will prevent them from souring or watering?

Becent American and Loreign Zatents.

Under this heading we shall publish weekly notes of some of the more prom inent home and foreign patents.

COTTON CHOPPER.-Joseph R. Hood, Wedowee, Ala.-This invention consists in providing the frame of a cotton chopper with a hoe, arranged in such manner as to work from the side of the frame, for the purpose of thinning out the cotton crop.

WOOD-SPLITTING MACHINE .- Frank Ficht, Dyckeville, Wis .- This inven tion has for its object to furnish an improved machine for splitting cord wood, shingle bolts, and other short wood, and which shall be simple in con struction, effective in operation, and conveniently operated.

CARTRIDGE BELT.-William B. Hayden, Columbus, Ohio.-This invention has for its object to so improve cartridge belts that the same may be revolved, to bring the filled pouches always to the front, and to improve the pouches so that the wads of the several cartridges will be retained in place.

HOLLOW AUGER .- Aaron Bauman and Orin O. Witherell, Toledo, Ohio.-This invention has for its object to furnish an improved hollow auger, which shall be simple and inexpensive in construction, not liable to get out of order, and which shall require less power to operate it than the hollow augers constructed in the ordinary manner.

SPADE.-Harrison Parkman, Philadelphia, Pa.-This invention consists in a spade whose lower end is beveled downward from each outer corner to a central point; which is wider at the lower than at the upper end; which in cross-section is concave on its front and convex on its rear side; and which longitudinally is straight on its rear side, from top to bottom.

WASHING MACHINE.-A. J. Nave, Columbus, Texas.-This invention has for its object to furnish an improved machine for washing wool, clothes, etc., which shall be simple in construction, convenient in use, and effective in operation, being so constructed as to wash the clothes quickly, thoroughly and with very little wear.

INVALID BEDSTEAD.-Dr. William O. Reid, Vienna, N. C.-This invention relates to improvement on the bedstead patented to applicant March 1, 1870, and consists in mechanism whereby the patient is enabled to raise his body into a partially erect position, and otherwise assist himself in various way without the aid of an attendant.

BIN COVER.—Alonzo S. Maxwell, Dixon, Ill,—This invention relates to improvements in the bin covers made in the form of a segment of a circle, and moving of circular lines in opening and closing, and it consists in pro viding arms for the said covers, which are pivoted at the axis of the curve of the cover, and have curved heads, by which they are attached to the cov-ers; said heads stretching across the ends of the covers at the inner sides in a way to brace and strengthen the covers; and the covers are supported on the pivots of the arms whereon they swing in opening and closing, so that they are held either open or closed, by gravity. The invention also consists in the application to the bins, of casings to prevent the contents of the bins working between the arms and the walls thereof; also a packing to exclude it from the space between the cover and the top of the case.

DRAWER PULL.-Charles H. Pierpoint, West Meriden, Conn.-This inven tion relates to improvements in that class of drawer pulls in which a handle is jointed to a shank projecting from the front of the drawer, to hang in a vertical position when not used for pulling the drawer, and it consists in the application to the said handle, of a cushion of india-rubber or other suitable elastic substance, on the part likely to strike against the said drawer front when let fall, to prevent marring or defacing the front, also to prevent noise

FILE AND BINDER FOR PAPERS, PAMPHLETS, ETC. - J. G. Floyd, Jr., New York city. This invention has for its object to furnish an in

STAMP.-A. M. Darrell, Washington, D. C.-This invention relates to tha class of stamps which indelibly mark an object by burning an impression into it with a heated die; and the object of the invention is to so improve the stamp that it shall be self-heating, and at the same time be neat, dura ble, cheap, and convenient, the heating apparatus being as capable of adap tation to small hand stamps as to the larger classes of spring stamps, etc.

ROACH AND BUG TRAP.-Thomas Williams, Tompkinsville, N. Y.-This invention consists in applying to the lower edge and outer side of the sus-pended funnel an annular flange, which constitutes a trough, in Which liquid for preventing the escape of the animals may be contained.

FEED-WATER HEATER.-E. L. Jones, Memphis, Tenn.-This invention reates to improvements in feed-water heaters for steam boilers, and consists in a pipe or pipes arranged to traverse the furnace chamber, through which pipes water is supplied to the boiler by a force pump, and in which a current may be maintained when the pump has ceased its operation.

FOLDING DESE.-John Milwain, Nashville, Tenn.-This invention relates to improvements in folding school desks, and it consistsing a combination with the folding table of the desk, of a strip or plate for closing the opening at the point where the table is folded down, and an arrangement of the pivot points, bracing arms, and guide grooves, for the latter, for operating the table, so as to effect the said closing of the joint, so that when the table is folded down, the book case beneath will be closed dust proof.

WASHING MACHINE.-E. P. Brown, Thomasville, Ga.-This invention relates to improvements in washing machines, and consists of two sets of rollers, each mounted in a frame, with spaces between them, one set arranged above the other, both in a rectangular case, and connected to a vibrating working bar, so that they will move simultaneously in opposite directions, the rollers of the upper set rolling up and down over the lower ones, and acting on the clothes placed between the two sets. The invention also comprises the application to the upper set of a spring for increasing the pressure on the clothes.

SPOKE-TENONING MACHINE.-Godfrey E. Culp and Matthew Flaig, Lock haven, Pa.-This invention consists in an improved machine for tenoning spokes for wagon wheels; and consists in a peculiar construction and ar rangement of parts, for effecting the operation in a rapid, neat, and effec tive manner.

STUFFING BOX FOR ENGINES. - Joel A. H. Ellis, Springfield, Vt. - This invention has for its object to prevent the escape into the atmosphere of vapor around the piston and valve rods, and the escape of the fluid from which the vapor is produced around the plunger of the force pump that supplies vapor generators.

which the vapor is produced around the plunger of the force pump that sup. plies vapor generators. VAPOR GENERATORS FOR VAPOR ENGINES. - Joel A. H. Ellis, Springfield, Vt. - This Invention relates to a new means for utilizing the escape heat of full supervil, Rochester, N.Y. 111,320. - COMPOUND LIQUID FOR USE IN VAPOR ENGINES. - J A. H. Ellis, Springfield, Vt. 111,330. - STUFFING BOX FOR ENGINES. - J A. H. Ellis, Springfield, Vt. a furnace and steam engine, for the purpose of vaporizing gasoline or other volatile substance used in a vapor engine.

MEDICAL COMPOUND.-Rebecca Gilkinson, NewYork city.-This invention and discovery relates to a new and useful improvement in a liniment for curing rheumatism and similar disease

DUST FLUE DAMPER.-James M. Frear, Pittstown, Pa.-The object of this invention is to obtain convenient and easy access to the bottom flues of stoves and ranges for the purpose of cleaning the same, and also to create an under draft for carrying off the ashes and dust which rise when raking or shaking the grate.

COMPOUND FOR VAPOR GENERATORS. -J. A. H. Ellis, Springfield, Vt. This invention relates to a new compound fluid to be used in the vapor generators of vapor engines.

SALT CELLAR.-John T. Walker, Brooklyn, N. Y.-This invention relates to a new salt cellar, which is provided with a clamping spring to be readily GRATE FOR FURNACES. —Alfred Dart, Carbondale, Pa.—In this invention,

the fuel is fed upon a grate set at an inclination of about 45 degrees, and provided with a corrugated cover, whereby the fuel is kept in a thin stratum and in a state of thorough and nearly uniform combustion.

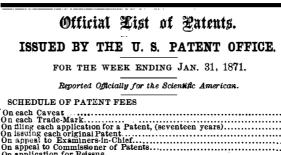
SEWING-MACHINE MOTOR.-William C. Thornton and James D. Cooley. Hillsville, Va.- This invention relates to a stop-mechanism for sewingmachine motors, whereby the motion of the motor may be arrested instantly. and at any desired mor ent.

SOLUTION AND PROCESS FOR EMBALMING.-Dr. Benjamin F. Lyford, San Francisco, Cal. - This invention relates to a new compound for use in embalming, and a peculiar process of preparing and applying the same, whereby animal bodies may be perfectly preserved without appreciable deteriora tion for an indefinite period.

APPARATUS FOR PRESERVING MEATS, FRUITS, ET icholas H. Shipley. Baltimore, Md. —In this invention an apparatus is provided for simultane ously exhausting the air from any number of vessels, with or without the application of heat thereto, for the purpose of scientific experiments, and for domestic use in preserving meats, fruits, vegetables, etc. The apparatus is also designed for the substitution of gases in place of the air exhausted and for the application of heat or cold to the vessels during the process. COMBINED TAPE MEASURE AND SCREW DRIVER.—Moses W. Dillingham,

Amsterdam, N. Y.-This invention relates to a new and useful improvement in a combination of well-known and useful articles more especially designed for undertaker's use, and it consists in combining with the pocket tape measure a screw driver and an awl, arranged to operate from a tube connected with the case of the tape measure.

DETACHABLE TACKLE BLOCK .- George Stancliff, New York city .- This is chiefly applicable to davits for suspending boats from the sides of a vessel, and for permitting the rapid detachment of the [same, but may also be used for other purposes.



111,302.-MILK CAN.-Thomas M. Bell, New York city.

111,303.—PNEUMATIC SPRING.—John Bevan, Port Richmond, and Benjamin W.Hitchcock, West Flushing, N.Y. 111,304.—PRINTING PRESS GUIDE.—Alexander L. Bevans,

Flushing, N. Y. 111,305.—MANUFACTURE OF COPPERAS.—R. DeWitt Birch, Philadelphia, Pa.

111,306.—APPARATUS FOR OPENING THE EYES OF PICKS.— Robert Blake, Scranton, Pa. 111,307.—METALLIC ROOFING.—George W. Bliss, Springfield,

111,308.-HORSE HAY RAKE.-Olpha Bonney, Jr., San Fran-

111,308.—HORSE HAY RAKE.—Olpha Bonney, Jr., San Francisco, Cal.
111,309.—HAT SUPPORTER AND VENTILATOR COMBINED.— John A. Borthwick (assignor tohimself and George W. Hess), Philadel-phia Pa.
111,310.—BEE HIVE.—Arthur Bradshaw, Rantoul, Ill.
111,311.—HEAD STOCK FOR MILLING MACHINES.—Amos H. Brainard, Hyde Park, Mass.
111,312.—W HEEL FOR VEHICLES.—Alexander D. Brown, Sr., Columbus, Ga.
111,313.—WASHING MACHINE.—Edmund P. Brown, Thomas-ville. Ga.
111,314.—HAY TEDDER.—Ezekiel W. Ballard Barre Mass

ville. Ga. 111,314.—HAY TEDDER.—Ezekiel W. Ballard, Barre, Mass. 111,315.—CRACKER MACHINE.—William Cairns, Jersey City

N.J. 111,316.—PUMP.—Herman Camp, Rouseville, Pa. 111,317.—CULINARY VESSEI.—John H. Chappel (assignor to himtelf and Robert Seaman), New York city. 111,318.—COMPOUND FOR ENAMELING BRICK.— Decius W Clark, Chicago, Ill. 111,319.—CORN POPPER.— William F. Collier, Worcester, Mass.

Mass. 111,320.—Horse HAY RAKE.—Isaac N. Condra, Genoa, Iowa. 111,321.-BATH AND WASH STAND.-Royal Cooper, George-

111,321.—BATH AND WASH STAND.—ROYAI Cooper, Georgetown, D.C.
111,322.—GATE.—Hosea Ballou Crandall, Brocton, N. Y.
111,323.—GRAIN, COFFEE, AND RICE CLEANER.—Andrew Crawford, Wilkesbare, Pa., and Iram D. Crawford, Bloomington, III.
111,324.—HARNESS OPERATING MECHANISM FOR LOOMS.—George Crompton, Worcester, Mass.
111,325.—CARPET.—George Crompton, Worcester, Mass.
111,325.—CARPET.—George Crompton, J. Culver, Hart-

111,326.—PLATFORM HORSE POWER.—Frank J. Culver, Hart-

ford vt. – Frank v. Curver, – Moses W. Dillingham, Amster-dam, N.Y. 111,328.—SCREUL SAW.—William H. Dobson (assignor to Hen-

111,330.—STUFFING BOX FOR ENGINES.—J. A. H. EILIS, Springfield, Vt.
 11,331.—VAPOR GENERATOR FOR VAPOR ENGINES.—J. A. H. EILIS, Springfield, Vt.
 111,332.—FLY CATCHER.—Harriet A. Farnam, South Bend,

111,332.—FLI CATCHER. AMARGE ALL AND ALL AND

111,336.—DAMPER.—James M. Frear, Pittstown, Pa. 111,337.—CARPET STRETCHER.—Charles E. Gale, Aurelius,

111,338.-ROAD SCRAPER.-George B. Garlinghouse, North

Madison, Ind. 111,339.—SASH HOLDER.—Philetus W. Gates (assignor to himself and D. R. Fraser), Chicago, III. 111,340.—RAILWAY CAR TRUCK.—Charles Graham, Kingston,

Pa. 111.341.—VALVE FOR STEAM PUMPS.—Joseph F. Hamilton,

111,341.—VALVE FOR STEAM I OMPS.—JOSEPH F. HUMINTON, Alliance, Ohio.
 111,342.—DOOR HANGER AND RAIL.—Thomas Foster Hamil-ton. Geneseo, Ill.
 111,343.—LOOM.—Emory B. Hastings, Palmer, Mass., assignor to himself, Edwin Sawyer, Daniel L. Thompson, and Charles A. Perley.
 111,344.—HARVESTER RAKE.—George W. Hines, Brookfield,. Wis Artedated Ion 28 1871

WIS. Antedated Jan. 28, 181. 111,345.—REGISTERING TICKET PUNCH.—Austin D. Hoffman, Chicago, III., assignor to James H. Small, Buffalo. N.Y. 111,346.—COTTON CHOPPER.—Joseph R. Hood, Weedowee,

Ala. 111.347.—GRAIN SEPARATOR FOR THRASHING MACHINES.—

James W. Huntoon, St. Louis, Mo. 111,348.—ELECTRO-MOTORS FOR CARS.—Solomon Jones, New

111,348.—ELECTRO-MOTORS FOR CARS.—Solomon Jones, Ivew Orleans, La.
111,349.—PUMP.—T. O. Jones, Galesburg, Ill.
111,350.—CORN-SHELLING AND CLEANING MACHINE.—Louis Kamp, Vanderburg county, Ind.
111,351.—BUNG EXTRACTOR.—Josiah Kirby, Cincinnati, Ohio,
111,352.—BUNG.—Josiah Kirby, Cincinnati, Ohio.
111,353.—CAR STARTER.—George Byron Kirkham, New York city.

111,354.—PUMP.—T. J. Lapsley, Nashville, Tenn. 111,355.—CARPET CLEANER.—H. H. Lindhorst, St. Louis,

111,356.-HOISTING APPARATUS.-Andrew B. Lipsey, New

York city. 111,357.—FERTH.IZING COMPOUND.—J. M. Lowenstein, New

Orleans, La. 111,358.—DISINFECTING AND VENTILATING BURIAL VAULTS.

Invention has for its object to so provide tackle blocks that the load sus-pended from them may be readily detached when desired. The invention 111,359.—SEWING MACHINE.—William A. Mack, Norwalk,

Ohio. 111,360.—LAMP.—C. D. Macqueen, Philadelphia, Pa.

111,361.-HOISTING FORK.-Elias Magruder, Cap Au Gris,

111,362.—SPRING BED BOTTOM.—Erwin Williams Maxson,

Scranton, Pa. 111,363.—COVER FOR BINS.—Alonzo S. Maxweil, Dixon, Ill.

111,363.—COVER FOR BINS.—Alonzo S. Maxweil, Dixon, Ill.
111,364.—BEDSTEAD AND SPRING BED BOTTOM.—William McArthur, Philadelphia, Pa.
111,365.—COMBINED ROCKING SOFA AND BEDSTEAD.—Wm McArthur, Philadelphia, Pa.
111,366.—SULKY PLOW.—Edward Meloy and A. R. Stanley, shullburg, Wis.
111,367.—THRASHING MACHINE.—J. H. Miller, Arcadia, N. C. Antedated January 23, 1871.
111,368.—LAMP CHIMNEY AND DISH WASHER.—C. S. Moore and Silas A. Moore (assigns his right to Harland Boyd), Worcester Mass.
111,369.—CHLINARY VESCON.

111,369.-CULINARY VESSEL. - Francis Morandi, Malden, KIO \$20 111,370.—MANUFACTURE OF SUPERPHOSPHATE OF LIME.—

lets, and other periodicals, successively, as they are received, and which On	n application for Reissue	Campbell Morfit, Sudbrook Park, England. 111,371.—FOLDING SETTEE.—Henry T. Morse (assignor to L. Morse & Son, Athol), Mass. 111,372.—SEEDER AND CULTIVATOR.—James T. Mott, Post-
will hold the papers securely and without mutilating them, or interfering On	n an application for Design (curve and a hair years)	ville, Iowa. 111,373.—VALVE.—George Murray, Jr. (assignor to himself,
ts object to furnish an improved device for holding postage and internal A s	or Clopy of Claim of any Patent issued within 30 years	George Murray, Sr., and Henry E. Snow), Cambridgeport, Mass. 111,374.—WASHING MACHINE.—Andrew Jackson Nave, Col- umbus, Texas.
places where samps are said arrowing which shall be so constructed that	upward, but usually at the price above-numed. In full Specification of any patent issued since Nov. 20, 1866, at which time the Patent Office commenced printing them. ficial Chylics of Prawbays of any patent issued since 1886, we can supply	111,375.—FANNING MILL.—Harrison Ogborn, Richmond, Ind. assignor to S. E. Baker, Osceola, Iowa. 111,376.—PRESERVING COMPOUND FOR THE HANDS, ETC.—J
way that they may be easily and quickly detached when required, and	at a reusonable cost, the price depending upon the amount of tabor involved and the number of views. all information, as to price of drawings, in each case, may be had by	W. Osborne, Brooklyn, N. Y. 111.377.—SHOT CARTRIDGE.—S. White Paine, Williamsport, Pa.
WELL AU GER.—Eijab Altma n, Hamilton, Mo.—This invention has for its object to furnish an improved well auger, designed more particularly for	addressing MUNN & CO., Patent Solicitors. 37 Park Row, New York.	111,378.—LOOM PICKER. — Jerome M. Parker, Leicester Mass.
boring through veins of quicksand, and which shall be simple in construc-		111,379.—SHINGLE MACHINE.—Willis Porter, Orono, Me.
than augers constructed in the ordinary manner.	11,296ADJUSTABLE REAMEREdwin H. Adgate, Mitti neague, Mass.	111,380.—INVALID BEDSTEAD.—William O. Reid, Vienna
		10.00
object of this invention is to prepare a setting for precious stones and their	11,297.—FASTENING FOR DOOR-KNOB ROSES.—James M.Adol- phus, Philadelphis, Pa. Antedated Jan. 21, 1871.	111,381.—WATER WHEEL.—J. B. Reyman (assignor of one half his right to Donald W. Campbell), Springfield, Mo.
object of this invention is to prepare a setting for precious stones and their imitations, in such manner that the gold plates supporting said stones can be completely finished and polished before receiving them and the project-	phus, Philadelphia, Pa. Antedated Jan. 21, 1871. 11,298.— STEAM GENERATOR.— Christopher Ahrens and Frank Kamman, Cincinnati, Ohio.	111,381.—WATER WHEEL.—J. B. Reyman (assignor of one
object of this invention is to prepare a setting for precious stones and their imitations, in such manner that the gold plates supporting said stones can be completely finished and polished before receiving them and the project- ing pins that hold the same in place. The invention consists in the applica-	phus, Philadelphia, Pa. Antedated Jan. 21, 1871. 11, 298.— STEAM GENERATOR.— Christopher Ahrens and Frank Kamman, Cincinnati, Ohio. 11, 299.—MACHINE FOR WELDING TUBES.—William C. Alli- son (assignor to W.C. Allison & Sons), Philadelphia, Pa. 1900. West A MORP. Flish A Human Henrikan Ma	111,381.—WATER WHEEL.—J. B. Reyman (assignor of one half his right to Donald W. Campbell), Springfield, Mo. 111,382.—BALANCE SLIDE-VALVE FOR STEAM ENGINES.—G