## NEW INVENTIONS.

The following are some of the most prominent of the patents issued this week, with the names of the patentees :-

CARBURETING APPARATUS .- JAMES MCGEARY, Salem, Ma This invention relates to an apparatus or attachment for pipes for conducting gas, more particularly the object of which increase the illuminating power and quality of the gas, as it passes through to be burned or consumed.

GATE HINGE.-L. E. WOODWARD, Cohocton, N. Y.-This inven tion consists in elongating the eye or pintle hole of a gate, hung in such a manner that it will allow the eye a longitudinal play upon the pintle, whereby the forward end of the gate may raised and lowered for opening and closing it, thus dispensing with the use of latches and the like—a rigid catch being used, as well as preventing all sagging of the gate upon its hinges when it is closed.

GARDEN CULTIVATOR .- JOEL A. HALL, Columbus, Ohio .- This invention consists in so constructing a machine that any kind of grain may be sown in drills in any desired quantity. The machine is also provided with cultivator teeth or shovels of any desired form for covering the grain or eradicating the weeds and loosening up the ground.

GANG AND SUB-SOIL PLOW.-R. L. DODGE and E. M. WAL Gallatin, Mo.-This invention consists in constructing a gang of plows and arranging them in beams, and attaching them to a frame in such a manner that they may be either used for surface plows or for sub-soiling.

WOOL TYEE .- O. C. McCune, Darby Creek, Ohio .- The object of this invention is to provide in a cheap and simple manner, a device by which the fleeces of wool after it is shorn may be closely pressed and tied in a small space, and consists in the employment of levers in combination with a strap and covered teeth, in such a manner that the fleece of wool is acted upon by a rolling pressure and brought into a very small compass and held until tied by cords, when it can be instantly released from the pressure and removed from the machine.

PLOW.—CARLISLE ST. JOHN, Keosauqua, Iowa.—The invonsists in constructing the land side and colter of a plow of the same piece in such a form that a good cutter is made and also the land side of a plow

APPARATUS FOR DISTILLING.—C. H. HALL and JOHN ELLIS, New York City.—This apparatus is designed particularly for distilling or refining petroleum oil, but may be employed in the distiliation of turpentine and volatile oils of any other descrip , and it is so arranged that a continuous distillation can effected with little trouble and expense.

STOP COOK.—B. E. LEHMAN, Bethlehem, Pa.—This invention relates to a stop cock, the plug of which is open at the bottom and fitted into a case which is closed at the bottom and provided with astuffing box on top, so as to hold the plug down in its sear a prevent the escape of steam or liquid. The liquid or condens water accumulating in the case and plug, is drawn off through suitable waste valves, one in the bottom of the case and the other in the top end of the plug, in such a manner that in cold weather the stop cock sustains no damage by the freezing of said water or other liquid.

REMOVING THE FASTENING ON COEKS OF BOTTLES.—JAMES S. HAZAED, Newport, R. I.—This implement consists of a fork-shaped arm by which it is placed upon the neck of a bottle, in combina tion with a hook lever so hung to said arm that when the latter is over and upon the neck of the bottle it can be engaged with the loop fastener for the cork, which, by then properly operating it can be swung away from the top of the cork, leaving it free to

EGG BEATER.—CHAS. PINDER. Lowell. Mass.—This invention consists in providing a cover which fits tightly into a metallic can, which latter is the receptacle for the unbeaten eggs, with a number of hoops or arms extending downward into the can, and crossed or united so as to retain their proper position. By shaking to and fro this device the eggs will be dashed against the hoops or arms and thoroughly reduced to a froth in a very short time.

MACHINE FOR PEELING WILLOW.—GEORGE S. ANDERSON, Jeffersonville, Ind.—By this machine willow can be peeled in a most expeditious and practical manner, and without injuring it in

TURNING IRREGULAR FORMS .- J. E. F. LELAND, New York City.—In this machine the material to be turned is suspended upon centers of a carriage arranged to slide in a suitable way or grooveof the bed piece of the machine, in combination with which carriage one or more cutters are soarranged and operated that, as the material is carried along to the said cutters they will be made to so act upon the material as to produce the form de-

REVOLVING HAND HAY RAKE .- RALPH G. LAMSON, Browns ville, Vt.—This invention has for its object to furnish an improved revolving hand hay rake by means of which hay may be raked by hand easily, quickly, and cleanly,

HYDROMETER.-G. TAGLIABUE, New York City.-This invention consists in a hydrometer which has a lump of metal or other suitable material secured in its main bulb in such a manner that said lump will firmly adhere to the inner surface of the glass, and the secondary bulb used in ordinary hydrometers for the purpo bolding shot or mercury can be dispensed with. The length of the bulb is thereby materially diminished, and an additional space is obtained for the scale without increasing the aggregate length of

DEOP PRESS.—JOSEPH P. NOYES, Binghamton, N.Y.—This invention relates to a drop press the hammer of which is guided between two uprights and suspended by a belt from a crank mounted on the end of a shaft on which revolves loosely a hollow drum. ed on the end of a shaft on which revolves loosely a hollow drum.

This drum is rendered rigid with said shaft by the action of a loose freely.

The same and shoe which are arranged in the interior of the same, the shoe being connected by a link with an arm extending from the shaft and the lovercatch with the shoe by a pivot in such retary reciprocating enter, and also for operating and adjusting

a manner that when the drum turns in one direction the lever catch and shoe will bind on its inner surface and render the same rigid with the shaft, causing the hammer to rise by the action of the crank until it passes its upper center. At that point the outer end of the lever catch comes in contact with a spring stop, and the drum is released, allowing it to revolve independent of the shaft, and by pulling the spring stop the shaft is freed and the hammer drops. As the hammer rebounds, the lever catch and shoe immediately bind in the drum and the hammer begins to rise, and a drop press is obtained which can be operated with great convenience.

SHAKING TABLE.—WM. B. FRUE, Houghton, Mich.—This invention relatesto a shaking table, the top of which is made undulating, or so that it forms a series of concave troughs in which the ore lodges and which are provided with projecting points or teeth, and with discharge channels in such a manner that by the motion imparted to the table and by the action of the projecting teeth pass throughly agitated and the heavy parts are made to pass through the discharge channels, while the waste is thrown off over the lowest end of each of the concave troughs. The motion imparted to the top of this shaking table is triple, and thereby the separation of the ore is materially facilitated.

SAFETY VALVE FOR STEAM BOILERS.-H. ANDERSON, Chicago. III.—This invention relates to a safety valve which is held in position by a volute or other spring placed in the interior of the boiler, said valve being provided with a stem which extends through a socket in a bridge on the inner surface of the dome cover, in such a manner that the valve operates free and easy, and the spring which holds the same in position is out of reach of the engineer or person in attendance, and can not be tampered

INK-WELL COVER .- GEORGE MUNGER, New York City .- This invention relates particularly to the manner in which the hing joints of ink-well covers are constructed, rendering the same cheap in their construction, and eastly put on or taken off.

MACHINE FOR BENDING WOOD.—CHARLES MOYER, Coopersburg, Pa.—This invention is particularly intended for bending sleigh runners, but which can also be used for bending strips of wood for other purposes. The strip to be bent is secured to a former by means of a flexible metal strap, and said strap is provided with a link through which the end of the strip of wood is assed, so that the same can be conveniently bent to the required form, without over-straining the strap and with comparatively little power.

PISTON PACKING .- JAMES BROUGHTON, Lambertville, N. J.-This invention relates to a piston which is provided with of packing rings separated from each other by a partition plate, and each provided with a separate steam channel and with a separate rate set of springs. The steam channels are formed in the outer portions of T-shaped keys inserted behind the joints of the pack-ing rings, and through those channels steam is admitted behind the rings, the division plate preventing said steam from passing around to the exhaust side of the niston.

SASH SUPPORTER.-WILLIAM S. VAN HOEZEN, Saugerties, N. Y. This neat little invention consists of a simple arrangement of a rubber roller moving freely in an inclined recess. The sash being raised to any hight, the pressure of the roller prevents it from falling till its motion is confined by a loose bolt, then the window rating air its motion is commend by a roose bott, then the window can be lowered. As a sash supporter and lock, it is one of the sim plest of its class. Patented September 25, 1866.

DEVICE FOR LOWERING BOATS .- H. GOULDING. Worcester. Mass.—This invention relates to an apparatus which, when attached to the fore and aftends of a boat, will enable it to be hoisted up and lowered down to the side of a ship, and to be let into the water, with both its ends at the same time.

STOVE FOR DENTISTS .- S. P. HILDRETH, Mount Vernon, Ohio. -This invention has for its object the furnishing a stove for the use of dentists, for packing rubber, vulcanizing, etc., and it consists in combining a jacket for holding the vulcanizing flask With a stove.

PLANT TRANSPLANTER .- W. C. S. ELLERBE, Camden, S. C.-Thi, invention is designed to furnish an instrument by means of which all kinds of plants, such as corn, cotton, etc., can be transplanted without injury to the plant or checking its growth, the position of the fibrous roots in the soil not being disturbed.

CARPENTER'S BENCH.-ROBERT McConnell. Lawrenceville Pa.—This invention is designed to furnish an improved carpenter's bench, the vise of which is so constructed and arranged that the jaw can be adjusted, and the article to be held secured between the jaw and the bench instantaneously.

SAW HANDLE.-N. HOMES, Laona, N. Y.-This invention is a neat, convenient and substantial handle for cross-cut saws, which may be readily attached to and removed from the saw, and which may be used as a saw set or a wrench, as occasion may require.

ANIMAL TRAP.-JOHN W. HOLLINGSWORTH, Seymour, Ind. This invention has for its object to furnish an improved trap, simple in construction, efficient in operation, and no to get out of order.

HINGE AND PIN FOR IRON MOLDER'S FLASKS.—E. C. LITTLE, Louis, Mo.—This invention relates to an improved mode of making and fastening hinges and pins for the cope and drage of iron molder's flasks, the object and advantages of which are that they secure and strengthen the corners of the flask better than the old style of hinges and pins and ordinary methods of attachment and are not so liable to become deranged and thrown out of match by the shrinkage and springing of the wood of the fla

CORN PLANTER.—CARLISLE C. MYERS, Sterling, Ill.—This inve tion relates to a corn planter of that class commonly termed selfdropping, and it consists in a novel seed-dropping mechanism the corn may be planted in check necessity of previously furrowing the ground in one direction.

HANGING GATES AND DOORS.—GEORGE W. HOLLY, Low Moor, Iowa-This invention consists in hanging a gate or door by means on pivoted bars and guides in connection with braces, all being arranged in such a manner that the gate or door may slide, and

the bed to which the stuff to be mortised is attached, whereby everal advantages are obtained over the original mach

APPLICATION OF PETROLEUM AS A FUEL.-E. MCKINNEY. Clarkville, Tenn—This invention relates to an improved means of feeding petroleum to stoves, furnaces, etc., to serve as a fuel. It consists in the employment of water or other fluid having a greater specific gravity than the petroleum, and placing the former in an elevated tank or reservoir communicating with the lower part of the petroleum chamber by means of a pipe, so that the petroleum will be fed to the fire pan or chamber by static pressure

VENTILATING VAULT-LIGHT COVER.-MICHAEL J. McCORMICK, New York City.—This invention relates to an improvement in vault-light covers, whereby ventilation is obtained without removing the cover from its plate or bed.

BEEHIVE.—W. H. PIERSON, West Jersey, Ill.—This invention re-

lates to the breeding and spare-honey boxes, whereby thela bor of the bees is materially reduced; also relates to an improvedmeans ransferring the bees from one honey box to the other in order to admit of old combs being taken out when necessary, and to an improved robber trap, whereby the honey in the hive is fully guarded and protected from robber bees.

LOCK .- WILLIAM SELLERS, New York City -This invention relates to an improved lock of that class which are designed for articles having hinged or rising and falling lids, covers or tops, such, for instance, as piano-fortes, sewing-machine cases, etc.

COMBINATION SEAT AND DESK .- DAVID I. STAGG, New -This invention is a combination of a seat and desk, whereby the device may be adjusted to serve as a seat only, or adjusted to serve as a seat and desk for either adults or children. The invention is more especially designed for public schools where the rooms provided with desks and seats are frequently used for lectures, addresses, etc., and where seats for adults are required; the invention admitting of rows of desks and seats being converted into seats by a very simple adjustment.

HAY-LOADING MACHINE.-G. W. FOREST, Evansburgh, Pa.-This invention consists in a means for rendering the hay carrier operative and inoperative when desired, and also in a m elevating the carrier to any desired degree of inclination the scope of its movement, to conform to the load as the s

WATER ELEVATOR .- A. O. REMMINGTON and R. STEWART. Weedsport, N. Y.—This device is for elevating water for domestic purposes, and is composed of a bucket and windlass, the latter being provided with a bucket-releasing mechanism to admit of the empty bucket descending without the necessity of reversing the motion of the windlass

RADIATING STOVE—GEORGE D. GEBENLEAF, Depauville, N. Y.—This invention relates to an improvement in flues and valves, or dampers, whereby the direction of the products of combus-tion may be controlled in such a manner as to cause a large volume of heat to be radiated from the stove, and at the same time a direct or a fartially direct draft allowed, as may be re quired.

COAL-OIL LANTERN. JOHN O. HARRIS, Reading, Pa. vertion has for its object the construction of a lantern so that coal oil may be burned in it without emitting smoke and an unpleasant odor, and which will admit of being carried and swung around, and also raised and lowered suddenly, without extinguishing the light.

GRINDING MILL,-J. G. LANE, Washington, N. V.-This invention relates to an improvement on the conical grinding mill, more generally employed for grinding coffee, spice, etc., and it consists in a simple modification of the grinding surfacesor plates, where-by the discharge of the substance being ground may be regulated as desired, and the substance ground to the required degree of

WOOD-SAWING MACHINE.-ISAAC ALLARD, Belfast, Maine.-In the machine embraced in this invention, simplicity in both the construction and arrangement of the parts and efficiency in its operation are obtained.

STOVE .- E. N. CUMMINGS, Colebrook, N. H. - The object of this invention is to improve heating stoves, and increase their radiating surfaces without enlarging their size or increasing their cost. It is adapted for wood or other fuel.

COMBINED CARPET STRETCHER AND TACK HOLDER-FRED. ERICK ASHLEY, New York City.—This invention relates to a useful implement for the laying and tacking down of carpets, etc. It consists of a combined carpet stretcher and tack holder, by means of which the stretching and the tacking down of carpets, etc., can be accomplished with case and dispatch, and with the

MACHINE FOR WASHING DISHES .- JAMES J. SAWYER, Woodstock, Conn.—This machine consists of a receptacle for the water used, soformed as to receive and hold the dishes about its sides, leaving the central portion clear, where, by any suitable means, a dasher or beater is so manipulated as to throw and dash the water about and over the dishes for washing them.

Tool for Removing Boiler Tube.—F. Ramsey and Jas. Mil-LER, New York City.—This implement is so constructed and arranged, that by placing it upon the inside of the boiler tube to be removed it can be brought to bear against and made to cut or ever the tube at any point of its length between the head plates of the boiler.

SHINGLE MACHINE - A. M. CONNETT, Madison, Ind - This invention was illustrated in Scientific American, No. 6, present

## SPECIAL NOTICES.

Pinckney Frost, of Springfield, Vermont, having petitioned for the extension of a patent granted to him the 11th day of January, 1853, and reissued the 9th day of February, 1858, for an improve ment in scythe fastenings, for seven years from the expiration of said patent, which takes place on the 11th day of January, 1867, it is ordered that the said petition be heard at the Patent Office on Monday, the 24th day of December next.

RECEIPTS.—When money is paid at the office for subscriptions, a receipt for it will always be given; but when subscribers remit their money by mail, they may consider this errival of the first paper a beautiful acknowled muont of the received the first paper a beautiful acknowled muont of the recortion of their funds