Beccut American and Loreign Latents.

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

STEAM GENERATOR.-George A. Barnard, New York city.-This invention is claimed, by its construction, to obtain a thorough and rapid circulation, so that the generator may contain a liberal supply of water, while only a part of the said water is exposed to the heating surface. An easy transmis-sion of steam from all parts of the generator, and a collection of all the sediment, are claimed as additional advantages. The thinness of the stratum of water over the heating surface will, it is alleged, insure a rapid Vaporization. The invention appears to be one of practical merit and value.

ELASTIC DOOR GUARDS .- William N. Clark, Chester, Conn., has petitioned for an extension of the above patent. Day of hearing, November 1, 1871.

SEWING MACHINES.—Earle Harry Smith, Bergen Heights, New Jersey, has petitioned for an extension of the above patent. Day of hearing, October 25, 1871.

JOIST HOOK.-JamesS. Miller, of Terre Haute, Ind.-This is a combination of a standard, lever, hook, and arm, whereby a simple, effective, and convenent device for raising joists, to level them after being placed in a wall, is ecured.

HORSE SHOE NAIL CLINCHER.-Daniel Mater, Jr., assignor to himself and Ira Mater, Bellmore, Ind. The object of this invention is to provide a convenient tool for clinching horse shoe nails after they have been driven into the hoof; and it consists in the construction and arrangement of two jaws pivot ed together, and operated by means of a curved lever.

DITCHING MACHINE.-Stephen S. Wood, of Brooklyn, N. Y.-This invention relates to improvements in ditching machines; and it consists in a con-struction, combination, and arrangement of the several operative parts, whereby the earth scooped up by an oblique scraper or plow is discharged on to an inclined elevating apparatus, from the top of which, after being elevated, it is transferred to a lateral conductor to be discharged upon the bank at one side of the ditch.

DITCHING PLOW.-Robert M. Primmer, Vinton, Iowa.-This invention con sists in a new way of constructing a mold board for ditching plows, by shap ing the working face so as to carry the sod up against a vertical plate, which turns it over on the said mold board, and from which it is again partially turned to one side, but with the grass side toward the ditch.

HOLLOW AUGER.-Silas Katz, of Bossardsville, Pa.-This auger may be used for cutting tenon on spokes and for other purposes. Its advantages are: It may be readily adjusted to cut tenons of different diameters and different lengths. It may be operated in a lathe or in a hand brace, as may be most convenient. The cutters are slotted and placed obliquely to the center on the sliding jaws, so that they are readily adjusted to cut as re quired.

WHEEL PLOW.-Andrew J. Borland, of Charlestown, Iowa. - The object of this invention is to construct a cultivator that can be completely controlled by the driver, so that the plow will run at a suitable depth and desired angle. The invention consists in a new arrangement of levers and connecting rods, whereby the position of the plow can be fully regulated in accordance with the nature of the soil to be worked and with the objects for which it is to be prepared. The near horse walks in the furrow, the other one or twoon the land side of the plowing. The driver can with his feet control the depth of the plow, and with his hand, by means of a lever, the inclination of the same. The working depth of the plow can also be regulated by length-ening or shortening a strap. The driver is thus given complete control over the plow. His weight, by being near the wheel, tends rather to ease the plow than to add to the weight of the same.

RAILWAY JOURNAL BOX -Isaac Dripps, of Altoona, Pa.-This invention has for its object to improve the construction of journal boxes for railroad cars, so as to prevent heating and irregular wear, while allowing the journal to have the play necessary for running around curves or upon uneven tracks; and it consists in the construction and combination of various parts, whereby the desired result is secured.

DRAFT DEVICE FOR VEHICLE .- Jonathan S. Tibbets, of Brazil, Ind. -This invention relates to improvements in road carriages; and it consists in a novel safety detaching apparatus for disengaging the team if it becomes ungovernable. It also consists in an adjustable arrangement of the tongue, whereby it is adapted for attaching to carriages in which the clips are more or less distant from each other; and in improvements in the clips and connecting pins for preventing the latter from falling out.

COMBINED CHECK AND GLOBE VALVE.-G. W. Shields, Louisville, Ky. This invention consists of a common globe valve provided with a vertical stern having a horizontal disk on its top in combination with a vertical frame inclosing said disk, the valve stem passing through the lower end of the frame, which latter has a threaded stem projecting from its upper end, said stempassing through a stuffing boxin the upper side of the valve chamber, by turning which threaded stem the frame may be lowered so as to ouch the valve and confine it to its seat, or elevated away from the valve, to as to leave the latter free to rise under the action of steam, gas, or water.

COMBINED CORN HARVESTER AND HUSKER .- Leonard Devore, Victor, Iowa.-This invention relates to a machine that, when drawn through a field of standing corn, gathers the ears, drops them into an elevator, cuts off the knobs, slits the shucks while on the ears into transverse ribbons, doing such cutting and slitting at the same time that the ears are being elevated, drops the ears from the elevator into the shucker.strips off the husks, throwing them out of the machine, and finally conveys the ears off to one side of the apparatus, where it lets them fall into any receptacle that may be pro vided.

GAGING AND PLAITING ATTACHMENT FOR SEWING MACHINES.-This is an improvement upon a gaging and plaiting attachment patented by the same inventor, Jacob S. Atler, of Leavenworth, Kansas, May 3, 1870. As now ar-ranged, the work can, it is claimed, be done in the most satisfactory manner, requiring but very little attention of the operator in adjusting the binding on the edge of the cloth in advance of the instrument, which insures the exact adjustment of the binding, by reason of the natural tendency of the feed to cause the lower part to work under the cloth and draw off from the upper side being counteracted by the bottom of the hook acting on the edge of the binding, keeping it in the position required. This mode of attaching t he binder is also applicable for attaching ruffling or other instruments.

SCHOOL DESK AND SEAT .- J. Peard, of New York city .- This invention

tion relates to balancing a millstone by a system of weights secured to the rim thereof by means of bands encircling the stone. The invention consists in a peculiar arrangement of bands and weights calculated to attain the desired result with the least possible weight of metal and time required for shifting the weights.

STEAM PLOW.-Herman Miller, Bellville, Texas.-This invention relates to an apparatus forturningup soil in which the resistance of the plows is overcome by means of a chain fastened at one end to one side of the field, and passing over a toothed wheel which is rotated by a steam engine supported on the same truck as the shaft of said toothed wheel, which latter hauls in the chain and thus causes the machine and plows to advance, an apparatus being also provided for paying out the chain at one side of the machine as fast as it is hauled in, said paying out apparatus leaving the chain stretched on the ground behind the machine in the line in which it must lie in order to be hauled in on its return.

WATER GATE .- William Penn Hubbard, of Farmland, Ind., assignor to himself and James H. Fegans, of same place.—The object of this invention is to produce a durable and reliable fence or gate, to be put up across streams, rivers, creeks, and low grounds which are subject to overflow. The inven-tion consists in constructing the fence or gate of sections, which are hinged to a stationary sill, and in providing the same with pivoted arms which sustain them in the erect position, and, in case of a flood, serve to hold them down upon the bottom.

RAFTER HOOK .- John Newton Bebout, of Oberlin, Ohio. - This invention relates to a new rafter hook, which remains under complete control while being applied, one part being connected with a supporting stem or pole, while the other has a pivoted hook that carries the pulley and rope. The invention consists in the general arrangement of parts, whereby the desired result is obtained.

CULTIVATOR.-Edwin Reese, Eutaw, Ala.-This invention relates to a wheel cultivator, in which the shovels are attached to a frame placed beneath the main frame, and connected, by means of chains fastened to its front end, with the extremities of a whiffletree that is pivoted beneath the tongue said whiffletree being the instrument, and serving to prevent one chain from slackening while the other is kept bent in turning the machine to either side.

WINDOW FASTENING.-Thomas J. McCarver, Oregon City, Oregon.-In this invention a pawl or catch is pivoted to a plate attached to the window sash, and provided with a rigid bar or extension which passes through a slot formed in a flange of said plate. A spiral spring encircles the bar, and rests against the flange, so that the pawl is kept in contact with a notched bar or edge of the casing, and thus holds the sash at any desired elevation or locks it when closed.

SCREW PRESS.-W. J. Arrington, Louisville, Ga.-This invention relates to that class of presses in which the box rotates on a vertical axis, and in which there are two followers attached to the ends of screws, one right and the other left, which screws pass through fixed nuts, one at the top and the other at the bottom of the frame, so that, as the box is rotated, the followers turn the screws, and are thereby made to advance toward or recede from each other.

GARDEN IMPLEMENT.-D. S. Wilhoit, Madison Court House, Va.-This invention consists in the construction of the stock of a garden implement to qualify it for attaching and detaching of various blades, instruments, or devices requisite in garden culture.

MILLSTONE BUSH.-James Brown, Fonda, N. Y.-This invention consists in a peculiar relative construction of the bearing blocks or followers and the casing, whereby all wear is automatically taken up as fast as it occurs.

COMBINED CHAIR AND CANE.-David Otho Parker, of Liverpool, Nova Scotia.-This invention has for its object to furnish an improved combined chair and cane, which shall be so constructed that it may be readily adjusted for use as a chair or stool and as a cane, and which shall, at the same time be simple in construction, neat in appearance, and serviceable in either capacity.

IMPROVEMENT IN MANUFACTURE OF RUBBER CUSHION FOR BILLIARD TABLES .- Mathew Delaney, of New York city .- This invention has for its object so to construct a flask or mold for vulcanizing long billiard cushions that the apertures through the latter for the reception of the bracing and strengthening wires will be straight and smooth. The invention consists in combining, with the said flask or mold, a wire, which is drawn through the non-vulcanized rubber, and then stretched and straightened to properly form the desired aperture. Heretofore it has been found quite difficult to provide long cushions for billiards with straight small holes, and only by the application of the stretched wire has the difficulty been overcome.

OILING JOURNALS .- W. G. Winne, of Albany, N. Y.-This is intended moreespeciallyfor journals of vertical shafts, but it can be applied to horizontal shafts with advantage. A spiral groove terminating in a ring groove at the upper end is turned upon the journal. The oil flows from a reservoir through a channel to the lower end of the bearing, and is then carried upward by the groove, whence it flows back through another channel to the reservoir, and so on, a constant circulation over the bearing surface being thus maintained.

COOKING STOVE.-Seth Gregory, South Norwalk, Conn.-This invention has for its object to improve the construction of cooking stoves so as to more thoroughly utilize the heat developed by the combustion of the fuel. The invention consists in the construction and combination of certain parts of the stove for effecting the desired result.

UTERINE SUPPORTER.-Dr. Lyman D. McIntosh, Waseca, Minn.-This invention relates to a uterine supporter having a soft rubber stem, within which is placed a nut and also a screw bolt passing through the nut, said bolt terminating at both ends in hard rubber parts of the instrument, and being provided with a knob at one extremity, by turning which the screw is rotated, and the soft rubber stem lengthened or shortened accordingly.

NEW BOOKS AND PUBLICATIONS.

- THE ACTION OF NATURAL SELECTION ON MAN. The Development of Human Races under the Law of Selection : the Limits of Natural Selection as Applied to Man. By Alfred Russel Wallace. New Haven, Conn.: Charles C. Chatfield & Co.
- This is another addition to the already profuse literature on the subject

MILLSTONE BALANCE.-Zedekiah Dawson, Cole Creek, Ind.-This inven- A PRACTICAL TREATISE ON THE MANUFACTURE OF SOAPS. With numerous Wood-cuts and Elaborate Working Formerly Drawings. By Campbell Morfit, M.D., F.C.S. Professor of Applied Chemistry in the University of Maryland. New York: John Wiley & Son, 15 Astor Place. London: Trubner & Co., Paternoster Row.

The wide reputation of Professor Morfit, as writer upon and teacher of applied Chemistry, is a recommendation of the present work which alone would secure it a remunerative sale; but we can assure our readers that this is its least recommendation. The subject is treated systematically, perspicuously, and practically, while the theoretical principles involved are not neglected. The work is valuable for any technical library ; but to the soap manufacturer, we scarcely need say that it will prove a reliable guide in the by no means simple art of soap making. The list of working drawings numbers sixteen, including all the apparatus essential to the successful prosecution of the business; and the parts of the work devoted to the various materials used are full and complete. The work is a large octavo, printed in beautiful style, and handsomely bound.

A BOOK OF DESIGNS FOR MURAL AND OTHER MONUMENTS. By James Forsyth, Sculptor. With an Introduction by Charles Boutwell, M.A. Philadelphia: Henry Carey Baird, Industrial Publisher, 406 Walnut street.

This is a quarto volume, containing seventy-eight designs adapted to diferent requirements. The designs are of a strictly practical character, and may be produced precisely as lithographed. They may also admit of modification without relinquishing their general features. The collection contains designs for almost every class of monuments in marble or other materials, including architectural metal-work. The work is the most artistic of any book of the kind that has passed under our notice, and the plates are executed in fine style. The price is five dollars, free of postage,

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117,957.—SEINE —L. H. Alexander, Gloucester, Mass. 117,958.—WHEEL—F. Alger, Boston, Mass. 117,959.—BROOM.—E. A. Anderson, Danville, Tex. 117,960.—COUPLING.—J. F. Andrews, Nashua, N. H. 117,961.—CULTIVATOR.—W. J. Arrington, Louisville, Ga. 117,961.—CULTIVATOR.—W. J. Arrington, Louisvins, Gu. 117,962.—BALING PRESS.—W. J. Arrington, Louisville, Ga. 117,963.—FENCE POST.—C. Ayers, Farmington Centre, Wis. 117,964.—SLATE.—W. F. Baade, Buffalo, N. Y. 117,965.—EPERGNE.—S. S. Barie, Green Point, N. Y. 117,966.—FRUIT GATHERER.-J. S., A. M. Barry, Sheridan, Mich. 117,967.—NEEDLE WRAPPER.—M. E. Baylis, Reduitch, Eng. 117,968.—IRON AND STEEL.—H. Bessemer, London, Eng. 117,969.—FAN.—J. M. Beverly, Chicago, Ill. 117,970.—PLOW.—J. Blackwood, Madison, Ohio. 117,971.—Hoist.—D. A. Bolt, Harrisburgh, Pa. 117,972.—Brake.—H. Bothe, St. Louis, Mo. 117,973.—PULVERIZER.—G. C. Bovey, Cincinnati, Ohio. 117,974.—CHEESE FRAME.—T. M. Brintnall, Medina, Ohio. 117,975.—WATER METER.—J. Broughton, Brooklyn, N. Y. 117,976.—BED BOTTOM.—G. Brownlee, Princeton, Ind. 117,970.—BED BOTTOM.—C. Browniee, Frinceton, Ind. 117,977.—LIFE BOAT, ETC.—C. Butgenbach, Louisville, Ky. 117,978.—CARVING MACHINE.—J. W.Campbell, New York city. 117,980.—PACKING.—H. S. Cate, Deerfield, Pa. 117,981.—CORN PLANTER.—W. B. Chambers, Decatur, Ill. 117,982.—Egg BEATER.—D. B. Clayton, Columbia, S. C. 117,983.—TILE MACHINE.—G. Clayton, Cleveland, Ohio. 117,084. Our Curv. W. Clargherd, Organ V. 117,983.—TILE MACHINE.—G. Clayton, Cleveland, Onio. 117,984.—OIL CAN.—W. Cleveland, Orange, N. J. 117,985.—DRESSING FRAME.—R. Collier, Laurel, Md. 117,986.—BROOM.—R. E. Copson, Hamburg, Iowa. 117,987.—SCROOL SAW.—T. L. Cornell, S.Whitlock, Derby,Ct. 117,988.—Egg CARRIER, ETC.—J.T.Cornforth, Kansas city,Mo. 117,989.—CULTIVATOR, ETC.—H. J. Coyle, Buffalo, N. Y. 117,909.—BRAW DUSTEP. J. Domp. Achland, Ohio. 117,989.—CULTIVATOR, ETC.—H. J. Coyle, Buffalo, N. Y.
117,990.—BRAN DUSTER.—J. Damp, Ashland, Ohio.
117,991.—PADDLE WHEEL.—D. S. Darling, Brooklyn, N. Y.
117,992.—CAR COUPLING.—P. W. Davis, Portland, Oregon.
117,993.—EXCAVATOR.—R. W. Davis, Sonora, N. Y.
117,994.—HAME TUG.—P. R. Dawson, Brenham, Tex.
117,995.—BILLIARD CUSHION.—M. Delaney, New York city.
117,996.—STOVE —W. Doyle, Albany, N. Y.
117,998.—GAS.—H. H. Edgerton, Fort Wayne, Ind.

provides an useful and very convenient school desk and seat the most prominent feature of which is that both the desk and seat can be folded into a ver tical position during the exit and entrance of pupils in the performance of exercises, and in the sweeping and cleansing of the building. This great convenience is coupled with a tasteful design.

DENTAL DRILL.-This is an arrangement of foot treadle with a pulley af fixed to an upright standard by which a horizontal shaft, extending from a revolving cap at the top of the standard, is driven. From this shaft a system of universal friction gearing (this gearing being made of india rubber) to gether with suitable shafts enables the power of the prime mover to be transmitted in any direction and position for drilling or dressing teeth as required by dentists. Mr. Greene V. Black, of Jacksonville, Ill., is the inventor.

STEM WINDING WATCH .- Samuel Jaccard and Justin Jaccard Jaques of St. Croix. Switzerland. assignors to D. Constant Jaccard. of St-Louis, Mo.-This invention relates to a new stem winding and setting watch of that kind in which, by pressure against the stem, the setting, and by the closing of the case, the winding attachment is thrown into gear. The apparatus operates to a great extent automatically-that is, with the opening or closing of the lid, but the claim rests upon a combination of a lever with the catch and a spring lever to operate by the action of the sliding stem as specified.

GANG PLOW AND CULTIVATOR.-W. J. Arrington, Louisville, Ga.-This in vention relates to that class of cultivators which are composed of a fixed and two adjustable side beams, and consists in an improved construction and ar rangement of parts, whereby the parallelism of the side beams is preserved under all adjustments to or from the central beam.

of Natural Selection. Mr. Wallace agrees with Mr. Darwin, that Natural Selection has played an important part in the development of the various races of men, but denies that it alone accounts for the facts of man's present existence, his moral nature, etc. As a writer, Mr. Wallace is not inferior to Darwin; as a thinker, he ranks high, and his arguments are of a kind not easily refuted.

THE FEDERAL GOVERNMENT: ITS OFFICERS AND THEIR DUTIES. By Ransom H. Gillet, formerly M.C. from St. Lawrence Co., N. Y.; more recently, Register and Soli-citor of the U. S. Treasury Department, Solicitor for the U. S. in the Court of Claims, Counselor at Law, etc. Woodworth, Ainsworth & Co., 51, 53, and 55 John Street, New York ; 111 State Street, Chicago, Ill.

There is a general lack of the information supplied by this work. It is astonishing how few know anything of the functions of the various offices and officers whotransact public business, and the routine of the General Government. To those who wish a book of convenient reference on the subject named, Mr. Gillet's book will be welcome. It is a handsomely bound and printed octavo.

THE DURATION OF FUTURE PUNISHMENT. By Henry Con-Stable, A.M., Prebendary of Cork. Reprinted from the Second London Edition. New Haven, Conn.: Charles C. Chatfield & Co.

This is one of those works, of a speculative theological kind, which we regard as not the most profitable reading. The author maintains the total annihilation of the wicked after death, and the eternal life of the good.

117,998.—GAS.—H. H. Edgerton, Fort Wayne, Ind. 117,999.—MEAT CHOPPER.—M. L. Edwards, Salem, Ohio. 118,000.—CULTIVATOR. J. T. Ellis, Decatur, Ill. 118,001.—ROOF BRACKET.—D. Fisher, Mansfield, Mass. 118,002.—DRESSING HIDES.—E. Fizhenry, Boston, Mass. 118,003.-DRESSING LEATHER.-E. Fitzhenry, Boston, Mass. 118,003.—DRESSING LEATHER.—E. FUZNERRY, DOSTON, 118,004.— PACKING.—J. M. Flagg, Providence, R. I. 118,005.—RAISING LETTERS.—R. R. Foote, Chicago, Ill. 118,006.—PHOTOGRAPHY.—E. J. Foss, Boston, Mass. 118,007.—TOY ENGINE.—R. Frisbee, Cromwell, Conn. 118,008.—GAS COCK.—S. Gardiner, Jr., New York city. 119,000.—THUY.—M.C. Graves Tuscola, Mich., B. D. Gu 118,009.-THILL.-M. C. Graves, Tuscola, Mich., B. D. Graves, 118,009.—THILL.—M. C. Graves, Tuscola, Mich., B. D. Graves, Waterloo, Iowa. 118,010.—TUNNELING MACHINE.—C., J. P., and L. Griscom, Port Carbon, John Fritz, Mahanoy Top, Pa. 118,011.—RACE COURSE TOY BANK.—J.Hall, Watertown, Mass. 118,012.—FAUCET.—J. Hayden, Jr., Haydenville, Mass. 118,013.—ENGINE.—W. H. H. Heydrick, Chestnut Hills, Pa. 118,013.—ENGINE.—W. H. H. Heydnick, Chestnut Hills, Pa.
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118,016.—MOVEMENT.—C. W. Hurd, Comstock's Landing, N.Y.
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