INDEX OF INVENTIONS FOR WHICH

[OFFICIAL.]

Letters Patent of the United States were Granted in the Week Ending

November 14, 1882.

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

A printed copy of the specification and drawing of any patent in the annexed list. also of any patent issued since 1866, will be furnished from this office for 25 cents. In ordering please state the number and date of the patent desired and remit to Munn & Co., 261 Broad-way, corner of Warren Street, New York city. We also furnisb copies of patents granted prior to 1866; but at increased cost, as the specifications, not being whited must be avoid by burd. printed, must be copied by hand.

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ENGINEERING INVENTIONS

Mr. Lewis Larchar, of Marble Rock, Ia. has patented an improvement in snow plows which consists of top, middle side, and rearside wings in addition to the ordinary front scrapers; also, top chutes back of the front scraper for more effectually throwing off such portions of the snow as fail of being thrown off by the main scrapers, also such as are thrown over and fall back behind the main scrapers.

An improvement in log chutes has been patented by Mr. William Henry Barnum, of Reno, Nev. This improvement relates to chites for moving saw logs. As usually constructed, they consist of bare poles which have to be kept well greased in order that the logs may be moved. This greasing is expensive, especially when the chute is extended a long distance. and the labor of keeping the chutes in propercondition is an additional expense. This invention consists in the combination of rollers with the ways of the chutes

An improved interlocking bolt has been patented by Mr. Thomas J. Bush, of Lexington, Ky. These interlocking bolts are adapted to bolt two or more blocks, planks, or pieces of wood, stone, or metal, together, or to secure any object to or upon another, without the holes in which the bolts are placed being made entirely through to the surface opposite to that against which the nuts or bars are screwed upon the bolts, the bolts being formed without heads, and used with only one bar or nut.

An improved balanced slide valve has been patented by Mr. Clarence E. Biddison, of Rock Island, Ill. This invention consists in the combination of a slide valve having opposite partially cylindrical end portions or bonnets constructed to form receiving spaces for the exhaust steam, and a valve chest divided by the valve to form a central exhaust steam chamber and outer end live steam chambers, and sliding packing plates applied to the bonnets, whereby the valve is partially relieved from pressure bearing it over it and deliver it upon the end of the wagon to the down on its seat, and is exposed to equal end pressures

MECHANICAL INVENTIONS.

An improved stump puller has been patented by Mr. Newton P. Merchant, of Blaine, Mich. The invention consists in a frame carying wheels, shafts, and levers for pulling stumps, the frame being mounted on an axle and on a runner

Mr. John D. William, of Rising Sun, Ind. has patented an improvement in bell striking mechanism specially adapted for clocks, and it is designed to cause the striking of a bell capable of being heard miles distant by the action of a clock of small size.

Mr. John Wilber, of Gleason, Pa., has patented an improved churn power in which weights and springs are employed; and it consists in the peculiar construction and arrangement of gearing and levers by which the power given out by the falling weight or unwinding spring is utilized to the best advantage.

Mr. Thomas Donahue, of Terryville, Conn., has patented an improved padlock. This in. vention consists in certain novel features of construction in the class of locks known as the pin padlocks, the object being to obtain strength and dnrability.

An improved elastic packing for spinning spindlebolsters has been patented by Mr. Albert R. Sherman, of Pawtucket, R. I. The object of this invention is to prevent the vibration of the spindle and permit it. when revolving, to adjust itself to its true center of gravity; and to provide a more elastic and durable packing than the wool packing commonly in use, the latter being liable to become charred or burned by the friction of the spindle in the bolster.

An improved cotton elevator has been patented by Mr Jordan F. Jones, of Laurel, N. C. This necting and holding the parts at the angle required. invention relates more particularly to elevators for lift-ing seed cotton in gin houses to the different floors; and it consists in the construction and combination of devices whereby the cotton may be taken from a wagon while on a pair of scales which weighs it, and be very expeditiously transferred, free from rocks and packing, on to any one or more of the upper floors of the gin house

An improved roller bush has been patented by Mr. Patrick Brownley, of St. John, New Brunswick, Canada. This roller bush is formed of a cup-shaped casing containing a series of anti-friction rollers, which are held in the casing by a screwring screwed into a threaded opening in the cup-shaped casing, which ring is held from unscrewing by tap screws passed into the outer edge of the ring and the inner edge of the casing The axle pintle or pivot is passed through the circular space between the rollers, against which rollers it rests

been patented by Mr. Ferdinand A. Curpen, of Upper of ribbon. The reel is placed in a case with glass sides Sandusky, O. The object of this invention is to provide for the convenient and precise adjustment of the index band of watch regulators. Heretofore the index plates have been marked with an arbitrary scale, which is not reliable on account of difference in watches, even in those of the same grade. To obviate the difficulty from such variations this inventor provides indexes specially arranged for each watch, the construction being such that the changes can be readily made. A machine for planing locomotive links and link blocks, has been patented hy Messrs. Ernest Cockfield and John Howe, of St. Joseph. Mo. The invention consists of a combination of devices capable of attachment to an ordinary metal planer, whereby re-ciprocating motion of the planer table is made to impart a circular or curved motion to the holder that carries the link or block to he planed. This is accomplished by means of a connecting rod and a sliding is carried and the planer bed.

ing place, and thus avoid the turning of the cart at both of Sulphur Lick, Ky, ends of the route, effecting considerable economy of labor, besides saving the deep cross ruts formed in the roadway by turning the carts, especially at the dump-

Mr. Patrick Slattery, of Charleston, S. C., has patented a baling press constructed with a frame, a) ing the bows and lens frames of spectacles, whereby head block, and a follower, with the ends of which are connected by clevises the upper ends of screws. Upon shade when not in use, or can be lowered upon the nose the screws are placed beveled gear wheels having threads in the inner surfaces of their hubs, and meshing into gear wheels operated by cranks and pivoted to sleeves placed upon the screws. The gear wheels and sleeves are held from moving up and down by blocks secured to the press frame.

AGRICULTURAL INVENTIONS.

Mr. Martin McNitt, of Washington, Kan., nas patented a combined harrow and corn planter. The improvement consists in various details which render the implement very easily managed and efficient

An improved seed dropping attachment for check row corn planters has been patented by Messrs. Louis P. McGonigle and James H. Bigham, of Cato, Kan. This seed dropping attachment for planting corn in check rows has a spoke drive wheel, beveled gears, and a finger chain for tripping the seed valve. It will plant a field accurately in check rows

Mr. Charles Scafe, of Bangor, Wis., has patented a hay loader which consists of a simple and efficient arrangement of guides, revolving rakes, and an adjustable inclined carrier upon a two wheeled hay rake, for attachment to the hind end of a wagon, to | trivance of the slide by which the connection is fitted gather up the hay as the wagon and loader pass along attendant.

An improved sulky plow has been patented by Mr. Axel F. Bergqvist, of Fairfield, Ia. This invention relates to improvements upon the plow covered by Letters Patent, No. 234,743. November 23, 1880, granted to the same inventor, and it consists in certain novel features in the construction of the axle: and. in the combination with the lever for raising the plow out of the ground, of a spring adapted to assist the plow man when using the lever for this purpose; and various other improvements designed to increase the efficiency of the implement.

An improvement in sulky plows has been patented by Mr. Thomas T. Harrison, of Aubrey, Kan. This improvement in sulky plows consists of a joint in the tongue a little in advance of the axle on which the 'N.Y. This invention relates to the class of boilers wheels are mounted, and about where the evener is at- known as "coil boilers;" and it consists essentially in tached, for allowing the tongue to swing, so that the 'the combination with a coil, of a central pipe arranged horses may get about half way around square corners to receive the steam and superheat it, the said pipe bebefore the plow turns, together with stops by which ing fixed at its upper end and free to move at its lower the movement of the tongue on said pivot is limited to end when expanded or contracted by variations of tem-the required amount, the stops being changeable for persture, the valve and damper connections are conallowing the tongue to be shifted in like manner on the | trolled and operated by the expansion and contraction pivot, either to the right or left hand.

Mr. John J. Morris, of Humboldt, Neb. has patented an improvement in cultivators designed has patented an improvement in faucets, constructed to for cultivating corn planted in what is known as the discharge from the same nozzle either hot or cold water "listing process," which consists of plowing a wide fur row with adouble mould board plow, subsoiling the furrow, and planting the coru in the furrow of ten Or twelve inches deep. The improvement cultivator is divided along the middle longitudinally, and jointed together, so as to allow the sides to rise at an angle of sixty to eighty degrees, according to the inclinations of the sides of the furrows, in which the corn is planted, so | the plug into different positions. that the teeth will straddle the corn and pulverize the sides of the furrows, and provided with a chain for con-

MISCELLANEOUS INVENTIONS.

Mr. William C. Squier, of Kinmundy, Ill., has patented an eye wash consisting of the sulphate of zinc, oil of wintergreen, laudanum, oil of sassafras, sugar, and soft water.

by Mr. Anthony Ward, of Brooklyn, N. Y. This is a metal collar and elastic packing, the latter two being novel and simple device for climbing chains. It is applied to the foot and leg in the same manner as telegraph pole climbers.

An improved car coupling has been patented by Mr. William J. Dawson, of Lawrence, Kan. This Milan, Kan. The stirrup has a wire or strip pivoted to is an ingenious automatic coupler applied to the ordinary drawhead and capable of coupling cars of varying ing provided with prongs and the upper end being bent height.

This invention consists of a revolving reel carrying rolls | pivoted wire or strip will be depressed by the stirrup of ribbon. The reel is placed in a case with glass sides loop, and the prongs will be forced out of the guard

by which to hitch on the horse so as to draw the loaded seasons, and other phenomena connected with the cart backward to the dumping place, together with movement of the earth in its path through the heavens, hitching devices at the front end for hitching thereat in a manner that can be clearly understood by youngest after the cart is dumped to draw it forward to the load- pupils, has been patented by Mr. John R. McCrery, Jr.

> An improved device for holding spectacles in front of the eyes or for holding them when not in use, has been patented by Mr. Joseph A. Shone, of Salem. Miss. The invention consists in a hat rim or shade provided on the under side with hooks for holdthe spectacles can be held to the under side of the when they are to be used.

An improved saddle girth has been patented by Mr. Calvin Williams, of Big Valley, Texas. The advantage of this invention is that as the pad rests on the horse's belly at the usual point occupied by the ordinary girth, and the fastening straps radiate therefrom and connect with four different points near the front and rear of the four straps embrace the rotundity of the horse's belly, and thus prevent the saddle from slipping.

An improved organ case has been patented by Mr. Andrew Anderson, of Moline, Ill. This invention relates to the pedals of organs, and is designed for the prevention of injury to the bellows, sounding board, key pins, reed cells, or other parts of the interior of the instrument by the ingress of mice or other vermin, without affecting or injuring the sound or quality of tone of the instrument, and by means which add little or nothing to the cost of it, and are applicable to organs and other like instruments as now constructed.

Mr. Cyrus R. Furey, of Logansport, Ind., has patented a device for connecting the pole strap to the breast strap; the improvement consists in a conon the breast strap, calculated to render it more durahle of itself and less wearing to the strap, also to retain it better in its proper position on the breast strap when hanging by one hook, also to facilitate the connection of the martingale,

Mr. James Camper, of Saguache, Col., has patented an improvement in that class of spittoon holders in which the spittoon is inclosed in a box or case provided with a hinged lid and means for opening and closing it. The invention consists in the combination, with a spittoon hox or case having a hinged lid, of a plate or arm attached to said lid and a vertical rod working in a tube or hollow standard attached to the box or case, and provided at its lower end with a lateral fork for engagement with the plate or arm.

An improvement in steam generators has been patented by Mr. Harrison Willis, of Brooklyn, of the pipe.

Mr. John H. Seabury, of Hempstead, N. Y. or other fluid, and it embraces a combination, with the barrel of the faucet having a taper seat and elongated or enlarged general delivery opening, the nozzle of the faucet, and hot and cold water inlets, of a taper plng provided with transverse passages through it for supply ing either hot or cold water at different periods, or both hot and cold water at the same time, by simply turning

Mr. Artemas L. Dawson, of Elk Point, Dakota Ter., has patented an improvement in lamps. As usually constructed, lamp bodies or reservoirs are provided with a vertical rim or neck around the opening, and metal collars are secured thereon by means of plaster of Paris or other cement. Such neck increases the difficulty and cost of casting or moulding the lamp body, and the collare are liable to become loose and detached in consequence of the certent shrinking and falling out. To obviate these defects, A novel climbing device has been patented the inventor combines with a neckless lamp body a turned over the edge of the lamp body so as to inclose it between them.

A new stirrup which can be used as a spur has been patented by Mr. Charles E. D. Parker, of the inner shank, the lower end of this strip or wire beor inclined and passing into the stirrup loop, whereby A novel ribbon and lace show cabinet has when the stirrup is pressed against the side of the A novel index for watch regulators has been patented by Mr. Lucien P. Lowry, of Aurora, Tex. ¹ animal and the inner side is raised the upper end of the

Mr John H. Ferguson, of Dayton, Tenn. has patented an improved dump cart having a third wheel located between the shafts to carry the weight commonly supported on the back of the horse by the shafts, and contrived with hitching devices at the rear

buckle is pivoted to the bar and provided with angular upward bend at the free end.

Mr. Joseph A. Widemann, of Basle, Switzerland, has pateuted a new spring for mattresses, upwire spring having both ends formed into rectangular or nearly rectangular frames by which they may be waste pipe, whereby the nose and entire body of the applied between the top and bottom stats.

Mr. James C. Titzel, of Allegheny, Pa., has patented a process treating vulcanized India rubber Italy, has patented a process for extracting glycerine quadrant lever, arranged for operation between the for the production therefrom of a pure rubber, consistholder or rocking plate on which the link or link block, ing in dissolving the rubber in turpentine and linseed oil, then adding sulphuric acid and washing, then add-

mass the pure rubber.

A simple and inexpensive apparatus for next heating to ebuilition the clear liquid and illustrating the rotation of the earth on its axis and milk of lime, then treating with bicarbonate of soda around the sun, the changes of day and night and the or potash, and applying hydrochloric acid,

tain the bair of the horse's tail. The tongue of the walled tuyere with one or more double spiral channels or passages between the walls, said channels being formed by spiral partitions, commencing at the butt of the tuyere, diametrically opposite each other, and communicating with each other at the nose of the tuvere. holstery, etc., which is of simple construction and is through which channels a stream or body of water is strong and durable. It is a one-piece middle coiled kept in constant and rapid circulation from the butt to the nose, and then back to the butt and out through a

. tuyere is kept at a comparatively low temperature.

C Mr. Edmond L. M. Brochon, of Milan, and salts from waters obtained in the manufacture of | Co soap, which consists, first, in treating the cold waters with chloride of sodium, filtering, applying hydroing caustic potash, then precipitating from the soapy chloric or sulphuric acid, and precipitating the insoluble C matter with any of the well known coagulating agents,

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