

RECENTLY PATENTED INVENTIONS.

Railway Appliances.

CAR AXLE BOX. — Edward Leslie, Orangeville, Ontario, Canada. The bearing herein provided for is adapted for the standard box, the angular motion of the axle being allowed for, while a narrow bearing brass can be used, which is properly supported at the upper part, a flat key fitting into the casing provided with a central aperture, while an intermediate plate is held on the under side of the key with a circular offset fitting into the aperture of the key.

CAR PLATFORM.—Robert S. C. Fuller, New York City. An auxiliary platform, capable of independent movement, is pivoted on the rigid platform of the car, whereby, when the cars are coupled, the platform of one will meet that of the opposing car, the platforms remaining in contact throughout their width irrespective of the curves of the road, while a gate folding at the side of the car may be opened to extend from one car to the other parallel with the outer sill of the platform.

CAR PUSHER.—Joseph C. Chrisman, Sewell Depot, West Va. This device is intended especially for pushing cars in coal mines, as well as for other uses, and has a base formed of two foot sections adapted to slip in one direction along the rail, and to clamp against any reverse movement, a slide bar being connected with one of the sections and sliding through the other, with lever connections between the latter section and the slide bar and a push bar or rod.

TRACK PLOW.—Edward Leslie, Orangeville, Ontario, Canada. This is an ice or snow plow designed to loosen any hardened snow or ice immediately next to the track, and having a flanger mechanism to remove snow or ice in proximity to the inside of the rail and discharge it a sufficient distance from the track to prevent its falling back.

Electrical.

BRUSH HOLDER FOR DYNAMOS. — Walter S. Bishop, New Haven, Conn. This is a simple and efficient device for holding the brush in the position of use with a light and uniform pressure, the brush being rendered adjustable in the holder by a positive screw movement, the brush-holding arm being pushed forward into contact with the commutator cylinder by a spiral spring, while there is an adjusting screw for moving the brush backward and forward through the brush socket.

ELECTRICALLY CONTROLLED ENGINE. —James E. Byrne, Brooklyn, N. Y. This invention relates to a hydraulic engine operating in connection with sheaves and cables, the latter attached to a car or cage to move it up and down, and provides means whereby the controlling valve is operated by electricity from the car instead of by hand power, and also for automatically reversing the car switch when the car reaches its upper or lower limits of travel.

Mechanical.

ANTI-FRICTION BEARING. — Bethuel G. and George H. Handy, Monroe, N. Y. This is a roller bushing for sheaves in which there is a rotary tubular box within an outer casing, and a series of rollers journaled in the box parallel with its axis, the faces of the rollers contacting with the inner side of the casing, and there being a space between the outer surface of the box and the rollers to prevent frictional contact.

PIPE TESTING MACHINE. — Michael Sexton, New York City. This invention provides for the use at each end of the pipe to be tested of a frame carrying a clamp screw with a packed head, one of the two clamp heads being provided with a testing fluid inlet, whereby water, steam, air, or other fluid may be forced into the pipe from a compressing apparatus, at any desired pressure, to discover sand or blow holes, splits, etc.

WATER WHEEL. — James T. Rohm, Locust Grove, Pa. Mounted in a closed casing is an upper horizontal rimless water wheel, having inclined buckets, and a lower horizontal water wheel having oppositely inclined buckets, with a surrounding rim extending upwardly and inclosing the other wheel, the opposite rotary motion of the two wheels being transmitted in one direction to a gear wheel.

LEVER FOR LOOMS.—Joseph A. Evans, Philadelphia, Pa. This is a shuttle-box-operating lever designed to improve the box lever of a power loom adapted for weaving fancy fabrics by making the lever in two parts and jointing it to work as freely as a solid lever, yet yield at the center to permit both ends to go up, should the plunger be arrested in its upward movement from the anchor wings becoming locked.

SPRAY CYLINDER FOR PAPER MACHINES.—Granville D. Crance, Valatie, N. Y. This invention covers a spray cylinder cleaner in which the cylinder has an extension at one end and a discharge pipe at the other, a rod with a handle fitting in one end of the cylinder, while at the other end of the rod is a swab, which is to be reciprocated in the cylinder for readily cleaning it.

Agricultural.

DISK HARROW. — George T. Booth, Christchurch, New Zealand. This invention provides means for securing the disks more firmly on the bolt or axle, to prevent excessive wear and tear, and also to regulate the pressure of the disks on the soil, and so that the pressure may be transferred to the outer or inner end of the disk bar, while wheels and axles are provided, so that the disks may be carried well clear of the ground while traveling.

COTTON HARVESTER. — Richard H. Farnell, Rosedale, Miss. This is a machine for picking cotton from the rows of plants in the field, a principal object being to prevent the team from knocking out the ripe cotton, for which the picking box is made to

operate at two rows distant from the team, so that there will be between the team and the row of cotton being picked a row of picked plants, thus saving great waste.

HAY RAKE AND BALING PRESS. — John A. Hooton and Gilbert L. Wiard, Atkinson, Neb. This invention covers a combined machine of a hay rake and double baling press, with elevator, longitudinally extending baling boxes with alternately operating plungers, and a feeder delivering alternately into the boxes, taking up the hay from the swath, baling it, and dropping the finished bales in the field.

Miscellaneous.

STAMP CANCELER. — Benjamin Summers, Petersburg, Penn. This canceler has a main plate with a handle and parallel cheek pieces in combination with a tumbler, to which a rod is connected, blocks being held in ways between the cheek pieces and connected to the tumbler, whereby the down thrust of the handle will move the blocks in a straight line between the cheek pieces.

GRATE. — Salvatore J. Buzzini, New York City. This invention relates to grates for stoves, ranges, etc., the grates being made to reciprocate or shake preferably in straight horizontal directions to free the grate and fuel from ashes, and to swing to one side to dump the contents of the fire box, the invention covering various novel arrangements and combinations of parts.

COATING PAPER. — George Manahan and Henry Gade, New York City. This invention covers an apparatus for applying to one side of a web compositions of various kinds in a fluid form, provision being made for the required varying amount of the coating smearing surface, and the apparatus being mainly intended to be used in applying a preservative and weather proof composition to a web of paper for making sheathing or building paper.

SCIENTIFIC AMERICAN BUILDING EDITION.

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3. Engraving of the new Federal building to be erected at Worcester, Mass. Cost two hundred and fifty thousand dollars.
4. A cottage of moderate cost lately erected at Bedford Park, New York. Perspective and floor plans.
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6. A handsome residence lately erected at Chattanooga, Tenn., from designs by Blotherwick & Penn, architects. Cost ten thousand dollars complete. Plans and perspective elevation.
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June 11, 1889,

AND EACH BEARING THAT DATE.

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