No. 35,381. Pipe Coupling. (Joint de tuyaux.)

Felix Louis Decarie and Peter Lord, both of Montreal, Quebec, Canada, 7th November, 1890; 5 years.

Claim.—The combination, in a pipe coupling, of the sleeve a, having arm ε , and set-screw i, also having head b, provided with circular flange d, with sleeve a^i , having head b^i , provided with groove d^i , and packing e^i , adapted to receive the flange d and form a joint therewith by being pressed together by the set screw i, the whole substantially as described.

No. 35,382. Tap. (Taraud.)

James Dixon, Providence, Rhode Island, assignee of Horace Clark Bradford, Milwaukee, Wisconsin, both in U.S.A., 8th November, 1890; 5 years.

-In an adjustable tap, the combination of the collet A. provided with cap-retaining grooves C, cutting taps B located in their respective grooves C, inclosing band F surrounding said taps, taprespective grooves C, inclosing band F surrounding said taps, tapretaining gibs or claiming pieces G, provided with outward projecting flanges D and adjusting screws J, operating in said inclosing band F, and engaging at their inner ends against said tap retaining claims or gibs G, said gibs G being interposed between said enclosing band F, and the several cutting taps B, the threads of said claims G being adapted to engage in the threads I of the cutting taps, while the outward projecting flanges D, D of said claims engage upon the respective sides of said retaining band F, substantially as and for the nurrous snegified. purpose specified.

No. 35,383. Pipe Die. (Filière pour tuyaux.)

James Dixon, Providence, Rhode Island, assignee of Horace Clark Bradford, Milwaukee, Wisconsin, both in U.S.A., 8th November, 1890; 5 years.

1890; 5 years.

Claim.—1st. In an adjustable pipe-die, the combination of a collet A, provided with a longitudinal central socket, and a series of longitudinal grooves II, formed in its interior walls, radial clamping bolts I, provided with retaining slots for the reception of the cutting-chasers F, cutting-chasers F, retaining clamps or gibs K located in the slots of said bolts I, and having screw-threaded be ring surfaces for the reception of the screw-threaded be ring surfaces. And nuts L, turning on the bolts I, substantially as and for the purpose specified. 2nd. In an adjustable bipe die, the combination of a collet A, provided with a longitudinal central socket, a series of screw-threaded apertures a, for the reception of the reamers E and the remer-adjusting screws G, and a series of longitudinal rooves H, for the reception of the cutting-chasers F, reamers E, and reamer-adjusting screws G, radial clamping bolts I, provided with retaining slots for the reception of the cutting-chasers F, cutting-c

No. 35,384. Saw Set. (Fer à contourner.)

James Johnstone and William Johnstone, both of New York, State of New York, U.S A., 8th November, 1890; 5 years.

of New York, U.S.A., 8th November, 1890; 5 years.

Claim.—1st. A saw-set, comprising two main frames pivoted to two levers and operating in opposite directions, in combination with two oppositely-arranged anvils and two punches, one punch being carried by the upper frame and the other by one of the levers, substantially as shown and described. 2nd. In a saw-set, a main frame having a bridge piece on which is mounted an anvil, in combination with a sliding anvil block, an anvil mounted thereon, a set-screw for moving the anvil block, an anvil mounted thereon, a set-screw for moving the anvil block, two opposite set fingers, and means for reciprocating said fingers, substantially as described. 3rd. In a saw-set, the lever A, provided with the downwardly projecting check piece a, and the lever B, formed with the upwardly-projecting arm b, in combination with the main frame C, pivoted to the said check pieces and provided with the anvils D and G, the auxiliary frame H pivoted to the lever A, the set finger E pivoted to the ram b, and the set finger F, held in the frame H, substantially as described. 4th. In a saw-set, the lever A, formed with the check pieces a, a, and the lever B, formed with the anain and auxiliary frames C and H pivoted to the said check pieces, substantially as described. 5th. In a saw-set, the combination of the main frame C, slotted at d, and having the bridge-piece c¹, provided with the anvil G, the movable anvil block D and the reversible anvils D¹ and G, substantially as described. 6th. In a saw-set, the main frame C, formed with the satinger F, adjustably attached to the auxiliary frame H, provided with the anvil B, the auxiliary frame H attached to the lever A and the set finger F, adjustably attached to the auxiliary frame H, provided with the transverse worm H¹ and rod I, in combination with the set finger F, substantially as described. 8th. In a saw-set, the auxiliary frame H, provided with the transverse worm H¹ and rod I, in combination with the set finger F, the anvil G and Claim .- 1st. A saw-set, comprising two main frames pivoted to

No. 35,385. Car Replacer.

(Appareil à remettre les chars sur la voie.)

James McGary and Frederick C. Thompson, both of East Tawas, Michigan, U.S.A., 8th November, 1890; 5 years.

Claim.—The combination, for application to the rails of a railroad track, of the detachable clips D, of hook shape at their one end or side to engage with the track rails, and having an elongated open

space b below, onposite their hooked ends, the clip locking cams or eccentries S and the inclined replacing rails or bars C, pivoted at their upper ends to the clips for lateral and angular adjustment, subsantially as shown and described.

No. 35,386. Heating Drum. (Poêle sourd.)

The Brock Heating Device Co., assignees of Arthur Wellington Brock, all of Shepherd, Michigan, U.S.A., 8th November, 1890;

5 years.

Claim.—1st. In a heating drum, the combination of the inlet pipe A, the pipe B, provided with the reversible damper I, the chamber C, provided with the inclined bottom, the removable cap, the flues E and F and chamber D, the parts being arranged to operate substantially as described. 2nd. In a heating drum, the combination of the inlet pipe A, the flue B, provided with the reversible spring controlled damper, the chamber C, provided with the inclined bottom and the removable cap, and with the partition G, of the flues E and F and chamber D, and of the circulating flue K, the parts being arranged to operate substantially as described. 3rl. In a heating drum, the combination, with the inlet pipe, of the vertical flue B, provided with the damper having the abutment a and the spring b, arranged to hold it in either one of its adjusted positions, substantially as and for the purpose described.

No. 35,387. Wire Stretcher.

(Tendeur de fil de fer.)

Charles M. Kiler and George W.Kiler, both of Indianapolis, Indiana, U.S.A., 8th November, 1-90; 5 years.

U.S.A., 8th November, 1.90; 5 years.

Claim.—1st. A wire stretcher, comprising a casing, a sprocket-wheel having bearings in said casing, a pinton fixed to revolve with the spro ket-wheel, a sprocket-chain engaging the sprocket-wheel, and having a clamp to engage the wire to be tightened, a worm journalled in the easing and meshing with the pinion, and adapted to revolve the pinion and connected sprocket-wheel, and a hook device pivotally engaging the cosing, and fence post to hold the stretcher while the w re is being drawn that, substantially as shown and described. 2nd. In a fence wire stretcher, the two-part metallicersing A, having a hook pivotally secured to one end of the sprocket-wheel D, and pinion C, both secured to the same shaft and journalled in the casing, as shown, the worm B journalled in the casing with its axis at right angles to the axis of the pinion C, and having an angular-shaped end projected beyond the casing to be engaged by a crank or wrench, said worm meshing with the pinion and revolving it and the sprocket-wheel, and a sprocket-chain with a clamp at its end to engage the fence wire, all substantially as shown and described.

No. 35,388. Wire Fence.

(Clotûre en fil de fer.)

Charles M. Kiler and George W.Kiler, both of Indianapolis, Indiana, U.S.A., 8th November, 1890; 5 years.

Charles M. Kiler and George W. Kiler, both of Indianapolis, Indiana, U.S. A., 8th November, 1890; 5 years.

Clatim.—18t. A wire and metal rail fence, comprising metal corner or end posts, with wire fasteners secured thereto, metal intermediate posts, having transverse holes therethrough, a tubular rail loosely extended through the holes in said posts, and connected at their ends with the corner or end posts, and wires secured, to the end or corner posts and extended loosely through holes in the intermediate posts in a line with the rubular rail, substantially as described. 2nd. In a fence, the combination of the tubular rail, and the wires all secured together in such manner that they will be vertically central with relation to each other, substantially as described. 3rd In a fence, the combination of the tubular rail, and the wires all secured together in such manner that they will be vertically ecutral with relation to each other, substantially as described. 3rd In a fence, the combination of the tubular end posts A!, the tubular intermediate posts A, having transverse holes therethrough, the tubular rail Cextended through said holes and the wires D secured to the end posts and loosely extended through the intermediate posts with their centres vertically aligned with the rail C and posts, substantially as and for the purposes described. The In awire and tubular rail fence, the tubular posts, to combination with the caps B, having transverse holes by therethrough, and the tubular rust C extended through said hole, substantially as described, sith. The ombination, with the tubular posts A of a fence, of the caps B having the reduced ends to enter the posts, and having transverse holes therethrough, and the tubular rail C extended through said holes and secured to the corner posts at its ends, substantially as described. Sith. In a wire and tubular rail C extended through said holes and secured thereto and having sockets formed therein, the tubular rail centreing said sockets, and the wire S becured to the posts