

cutting a continuous board from a rotating block or log of wood, a yielding pressure strip *h* actuated under the tension of spring *W* by the angle-levers *S*, *V* and *T*, *V* nut *W*1, screw *W*2 and hand-wheel *W*3, substantially arranged as and for the purpose set forth. 5th. In combination with a machine for cutting a continuous board from a rotating and horizontally oscillating block or log of wood, the devices for cutting the lateral chime and chamfer, substantially as specified.

No. 31,232. Saw Mill Dog.

(*Clameau de scierie.*)

John Flesher, Edgington, Ont., 2nd May, 1889; 5 years.

Claim—In a saw mill dog, the combination, with the standard *A* and guide-post *B*, of the bar *C*, the pawl *D*, the lever *E*, the sleeve *F*, the bar *G* and the pawl *H*, all formed substantially as shown and described.

No. 31,233. Attachment for Pin and Link Car Couplers. (*Appareil d'attelage des chars à cheville et chaînon.*)

William L. Dwyre, Albany, Ore., U.S., 2nd May, 1889; 5 years.

Claim—The combination, with the draw-head of a car coupler, of a casing, a coupling pin, a movable bolt, a bent lever, a movable block and means for moving said block, all formed substantially as shown and described.

No. 31,234. Window Glass Setting.

(*Vitrage des croisés.*)

John V. Auth, Pittsburgh, Penn., U.S., 2nd May, 1889; 5 years.

Claim—The combination of the window sash, grooved, as described, a window glass, the rubber tubing *C* slotted longitudinally and applied to the edges of the glass, and the strips *b* confining the rubber and glass in the groove of the sash, substantially as specified.

No. 31,235. Rack for Agricultural Tools.

(*Râtelier pour les instruments aratoires.*)

Frank A. Herrick, Jackson, Mich., U.S., 2nd May, 1889; 5 years.

Claim—An agricultural tool rack, consisting of the standards *A*, the brackets *E* and *F*, the forks *G*, *H*, the legs *J*, the arms *I*, the bands *M*, the rods *N* and arms *O*, all formed, arranged and combined substantially as and for the purpose set forth.

No. 31,236. Lamp or Gas Boiler and Heater.

(*Cuisinière à lampe ou à gaz.*)

Montagu A. B. Shipman, Toronto, Ont., 2nd May, 1889; 5 years.

Claim—A lamp or gas boiler, consisting of reservoir *B*, the inner casing *A*, which forms the chimney, in combination with a lamp or gas jet, substantially as and for the purpose hereinbefore set forth.

No. 31,237. Machine for Cutting Peas.¹

(*Machine à arracher les pois.*)

John Ney, Ellice, Ont., 2nd May, 1889; 5 years.

Claim—The combination of the lifter *A* and the shoe *B*, substantially as and for the purpose hereinbefore set forth.

No. 31,238. Self-Lubricating Crank Pin.

(*Bouton de manivelle à graissage automatique.*)

Gardner R. Parker, Worcester, Mass., U.S., 2nd May, 1889; 5 years.

Claim—The combination, with the crank disk or arm, and a connecting rod *8*, having the end *7* provided with an oil-tube *10*, of the crank-pin *3* of the same external diameter, and having a central chamber *4*, and an oil feed hole *5* therein, the position of said feed hole corresponding to the position of said oil-tube for the introduction of oil into said chamber *4*, and a bolt *6* for closing the outer end of the chamber *4*, and a washer for holding the end of the connecting rod upon the crank-pin *3*, substantially as shown and described.

No. 31,239. Car-Coupling. (*Attelage de chars.*)

Abraham Diller and Joseph W. White, Brighton, Iowa, U.S., 2nd May, 1889; 5 years.

Claim—1st. In a car-coupling, the combination, with the draw-bar, of the hook-shaped coupling pin, and the latch on the under side of the drawhead for holding it in place removably, substantially as and for the purpose set forth. 2nd. In a car-coupling, the combination of the drawhead, pivoted link or bail, hook-shaped coupling-pin, and vertically sliding uncoupling-rod provided at its lower end with a forked arm adapted to lift the bail off the hook, substantially as and for the purpose set forth. 3rd. In a car-coupling, the combination, of the drawhead, pivoted link or bail, hook-shaped coupling-pin vertically sliding uncoupling-rod provided at its lower end with a forked arm projecting at right angles, and the spring actuated latch or keeper affixed to the uncoupling-rod and overlapping the inner end of the link with its free end, substantially as and for the purpose shown and set forth.

No. 31,240. Hot Water Furnace.

(*Calorifère à eau.*)

Ulric Beaupré, Montréal, Qué., 2nd May, 1889; 5 years.

Claim—1st. In a hot water furnace, a fire-box section *E*, provided with a fire-box *L* having the pieces *M*, projection *s*, and ports or openings *I* and *J*, substantially as described and for the purposes set forth. 2nd. In a hot water furnace, a section *N* provided with the

openings *Q*, partitions *R*, channels *t*, projection *S* provided with the ports or openings *V* and *W* and *X*, substantially as described and for the purposes set forth. 3rd. In a hot water furnace, a section *Y* provided with the openings *c*, partitions *d*, channels *F*, projection *e*, provided with the ports or openings *g*, *h* and *i*, substantially as described and for the purposes set forth. 4th. In a hot water furnace, the use of the projections *g* and grooves *r*, substantially as described and for the purposes set forth. 5th. In a hot water furnace, the combination of the fire-box section *E*, with the sections *N* and *Y*, intake pipe *H*, delivery pipe *u*, and cover *At*, substantially as described and for the purposes set forth.

No. 31,241. Device for Securing Wire to Railroad Rails. (*Appareil pour assujétir le fil de fer aux rails des chemins de fer.*)

The American Semaphore Company, (assignee of Frederick Stitzel and Charles Weinsedel), Louisville, Ky., U.S., 2nd May, 1889; 5 years.

Claim—1st. In a device for holding wire, the end of which is to be upset, the combination, with a yoke *E*, and screw *F*, of two clamping blocks *A*, *A*, substantially as set forth. 2nd. The combination, with a yoke *E*, a screw *F* passing through an arm of said yoke, and an arm *f* of the yoke to form a bearing or support for the yoke, of two clamping blocks *A*, *A* having serrated grooves, substantially as set forth. 3rd. The combination, with a yoke *E*, a screw *F* passing through one arm of the same, and an arm *f* of the yoke forming a support or bearing for the yoke, of two clamping blocks having curved grooves, said grooves being provided with teeth or serrations *d*, substantially as set forth. 4th. In a clamping device, the combination, with a yoke *E* carrying a screw *F*, of two clamping blocks *A*, *A* having curved serrated grooves, substantially as set forth. 5th. In a clamping device, the combination, with a yoke *E*, a screw *F* passing through an arm of the yoke, a pin *n* secured in the end of the screw, and an arm *f* of the yoke forming a support or bearing for the yoke, of two clamping blocks *A*, *A* having recesses *a*, said blocks being provided with serrated grooves, and a screw-bolt *B* passing through these clamping blocks, substantially as set forth.

No. 31,242. Regulator for Dynamo-Electric Machines. (*Régulateur pour machines dynamo-électriques.*)

Joseph F. Kester and Joseph H. Briggs, Terre Haute, Ind., U.S., 2nd May, 1889; 5 years.

Claim—1st. In a regulator for an electric motor or generator, the combination, with the armature and commutator segments, of a normally open short circuit connecting two or more such segments, and a speed governor attached to a rotating part of the machine for closing said short circuit, whereby the armature coils corresponding to said segments may be thrown from the line into said short circuit when the machine reaches a definite speed. 2nd. In a dynamo or motor regulator, the combination, with a hollow extension for an armature shaft, of a circuit controller located within the extension and comprising a stationary contact, and a movable contact, and a speed governor extending from said extension and connected with and adapted to operate said movable contact of the circuit controller, substantially as described. 3rd. In a dynamo or motor regulator, the combination, of a regulating circuit controller in said circuit, and a centrifugal governor comprising a sliding weight, a hollow slotted guide for said weight extending at right angles from the armature shaft, a spring bearing on said weight, an adjusting screw for varying the tension of said spring, and a T-rod located in said guide and connecting the weight and circuit controller, substantially as described. 4th. In a regulator, the combination of the armature shaft, an extension of insulating material secured thereto, a speed governor mounted on the extension, and a circuit controller secured to the extension and connected with the governor, said circuit controller being in a regulating circuit, whereby when the machine reaches a definite speed the regulator will be brought into action. 5th. A speed governor for a generator or motor comprising a hollow slotted support or guide, a sliding weight upon the same, a spring embracing the guide and bearing upon the weight, an adjusting screw to regulate the tension of said spring upon the weight, a rod engaging the weight through the slots of the guide, and a circuit closer connected to said rod, substantially as described.

No. 31,243. Step Bearing for Shafts.

(*Crapaudine pour arbres de couche.*)

Carl A. Johansson, Stockholm, Sweden, 2nd May, 1889; 5 years.

Claim—A step-bearing for shafts in which the end of the shaft *B* is supported by a sphere resting against a fixed bolt *E*, which is surrounded by a socket or cup *C* fastened to the end of the shaft, and rotating with the same, the inner diameter of the said cup being somewhat larger than the sphere, as above specified.

No. 31,244. Hopple. (*Entrave.*)

Orange B. Fales and M. Luther Edwards, Canfield, Ohio, U.S., 2nd May, 1889; 5 years.

Claim—In a serving and kicking hopple, the combination of the collar *A*, having attached thereto the breast-strap *B*, the free end of said breast-strap having the pulley *a*, the rope *C* passing over said pulley *a*, the pulley-block *d* fixed to said rope *C* and adapted to embrace and confine the return portion of said rope *C*, the hopple composed of the strap *G*, and the elastic strap *H*, the snap-hooks *D* and *E*, and the surcingle *I*, substantially as and for the purpose specified.

No. 31,245. Seed Drill. (*Semoir en lignes.*)

Patterson & Brother Co., (assignee of John H. Downing), Woodstock, Ont., 2nd May, 1889; 5 years.

Claim—The combination, with the hooked projections *B*, *C* of a dog *E* pivoted on the pin *F* between the projections and actuated by a spring *G*, so as to hold the dog *E* against the top side of the lower projection *C*, substantially as and for the purpose specified.