No. 15,151. Improvements on Car Brakes.

(Perfectionnements aux freins des chars.)

Aldis H. Marden, Cambridge, Mass., U. S., 21st July, 1882; for 5

Claim.—The iron cross beam A, in combination with the heads B B and clamp C.

No. 15,152. Improvements on Brick Kilns.

(Perfectionnements aux fours à brique,)

Stephen J. Plant, York. Ont., 22nd July, 1882; (Extension of Patent No. 13,560.

No. 15,153. Improvements on Brick Kilns

(Perfectionnements aux fours à brique.)

Stephen J. Plant, York, Ont., 22nd July, 1882; (Extension of Patent No. 13,560.)

No. 15,154. Improvements in the Manufacture of Napped Hats. $(Perfection \cdot$ nements dans la fabrication des chapeaux à poil

William A. Baglin, Brooklyn, N.Y., and George Yule, Newark, N.J. U.S., 22nd July, 1882; for 5 years,

william A. Baglin, Brooklyn, N.Y., and George Yule, Newark, N.J. U.S., 22nd July, 1882; for 5 years,

Claim—1st. The process for making bats consisting in forming the bat upon a cone at several successive operations, the material of the bat upon a cone at several successive operations, the material of the bat upon a cone at several successive operations, the material of the bat upon a cone at several successive operations, the material of the bat being deposited upon different parts of the cone at different times in figures of predetermined shape. 2nd. The process for removing a bat from the forming cone and pressing them both method for securing or uniting a nap bat to a body felt consisting irst, in forming the nap-bat upon an exhausted cone of suitable shape to fit the body felt; second, in applying the body felt to the map-bat while upon the forming cone and pressing them both toxether; third, in removing the body felt and nap-bat from the cone there; third, in removing the body felt and nap-bat from the cone there, it is not an approximately uniform size and solding the same toxether in the usual manner. 4th. The process for preparing hat body felts for mino with nap bats formed in one piece consisting in shrinking the felts to an approximately uniform size and adoled the same toxether in a proper size of the same proper size of the same proximately uniform size and should be a pack thereto and sended without any clipping or fitting. 6th. As a new article of manufacture, a nap-bat formed in one piece and adapted to be stuck to the brim of a hat without clipping and tearing. 7th. As a new article of manufacture, a nap-bat consisting of a hollow cone A provided with means as flange of the supervising it, and a finger ring at the apex or equivalent device for earrier for hat bodies consisting of a hollow cone A provided with means as flange of the carrier blue had a provided with means as flange of the carrier blue had a provided with means as flange of the carrier points in figures of ornamental shape and op suitable rubbers.

No. 15,155. Improvements on Metallic Packing for Valve or other rods. (Perfectionnements aux garnitures mitalliques pour les tiges des soupapes et autres.)

Edwin P. Monroe, New York, N. Y., U. S., 22nd July, 1882; for 15 years.

Edwin P. Monroe, New York, N. Y., U. S., 22nd July, 1882; for 15 years.

Claim.—1st. The packing ring or rings having a cylindrical inner surface to fit to the rod to be packed, and a spherical or zone shaped outer bearing surface contained within a suitable receptable to support the said ring or rings in operative position, the said spherical bearing surface permitting the said packing ring or rings to rock and moove freely and be self-adjusting to the movement and wear of the rod. 2nd. A packing for valve or other rods, the packing ring and the packing receptacle having a curved bearing surface between them, whereby the said ring is permitted to rock freely and universally in the receptacle according to the requirements of the rod, and also to be compressed by movement in a longitudinal direction over the rod to compensate for wear. 3rd. In a packing ring having a zone-shaped or spherical external bearing surface and the receptacle therefore combined with a spring to press the said ring into the receptacle, to thereby wedge it in close contact with the rod passing through said ring. 4th. The combination of the rod, the packing ring receptacle with the stuffing box cover and being free to slide laterally on said bearing, to follow any lateral motion of the rod and packing. 5th. The combination of the valve box or chamber A, rod B, support C, coiled spring F, follower G, packing rings II I, packing ring receptacle JI, covers M O and bolts Q. 6th. The combination of the valve box or chamber A, rod B, support C and lining D. 7th. The combination of the packing receptacle and the stuffing box cover having bearing surfaces in juxtaposition, so as to allow of the sliding of the former upon the latter, and a ring of babbitt or anti-frictional me all inserted between said bearing surfaces. Sth. In a metallic packing for valve or other rods, the combination of the packing rings and the tapering coiled spring and the tapering coiled spring and the tapering coiled spring and the follower interposed between said spring an of the stuffing box cover and the sheet metal jacket or envelope.

No. 15,156. Improvements in Pulley Blocks.

(Perfectionnements aux chapes des moufles.)

Joseph W. Norcross, Lockport, N. Y., U. S., 22nd July, 1882; for 5 vears.

years.

Claim.—1st. The combination of the wooden sides or checks, the metallic frames or straps secured to the outer surfaces of said checks, the lugs extending from the outside frames or straps beyond the inner edges of the checks, the inside metallic straps extending through the lugs, the cap provided with slots to catch over the ends of the inside straps and the key for locking the parts together. 2nd. The combination of the wooden sides or checks, the outside metallic frames or straps, the lugs extending from the outside frames or straps beyond the inner edges of the checks, the inside metallic straps sextending through the lugs, the cap provided with slots to catch over the ends of the inside straps, the tapering pin h provided with grooves to engage with the edges of the holes or slots in the inside straps; and the key i for locking the parts together. 3rd. The combination of the metallic frames or sides extending through said lugs, the hubs or bearings formed on the frames or sides extending inward towards the inside straps, the centre pin which forms the axle of the sheave, and the key or keys for locking the block together. of the sheave, and the key or keys for locking the block together.

No. 15,157. Improvements in the Manufacture of Gas. (Perfectionnements dans la production du gaz.)

Samuel W. Serrell, (in trust for Myron H. Strong, Sidney Cornell, Henry M. Pierson and Walter E. Lawton.) Plainfield, N. J., U.S., 22nd July, 1882; (extension of patent No. 7677.)

No. 15,158. Improvements on Mechanical (Perfectionnements aux forges Forges. mécaniques.)

Peter Learn, Bertie, Ont.. (assignee of Charles' Hammelmann, Buffalo, N.Y., U.S., 22nd July, 1882; (extension of patent No. 8405.)

No. 15,159. Improvements on Mechanical Forges (Perfectionnements aux forges mécaniques.)

Peter Learn, Bertie, Ont., (assignee of Charles Hammelmann, Buffalo, N. Y., U. S.,) 24th July, 1882; (extension of patent No.

No. 15,160. Improvements on Coating Metallic Articles with Vulcanized Rubber. (Perfectionnements dans be procéde pour enduire les objets mitalliques de caoutchouc vulcanisé.)

William Garrity, Malden, and Nicholas Avery, Boston, Mass., N. S., 24th July, 1882; for 5 years.

Chaim.—1st. The process of coating metallic articles with vulcanized rubber, the same consisting in first coating the metallic article with muriate of tin, then applying thereto a layer of a composition