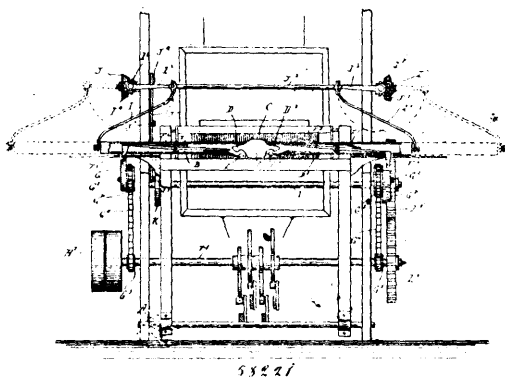
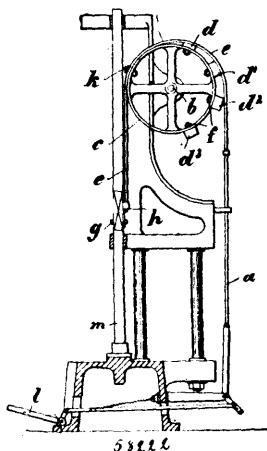


No. 58,221. Shuttle-worker for Looms.*(Navette pour métiers.)*

Lewin K. Heathcote, Glen Rock, Pennsylvania, U.S.A., 27th November, 1897; 6 years. (Filed 20th April, 1897.)

Claim.—1st. In a shuttle-worker, the combination with longitudinally movable shuttle carriers, of the shuttle-securing latches held therein, levers pivoted within the said shuttle carriers, and arranged at one end to release the said latches, and having abutments for engagement by the revolving cams, and a shaft provided with reversely projected cams arranged to operate their respective latch working levers, substantially as shown and described. 2nd. The combination substantially as described of the shuttle carriers, shafts provided with cranks connected with the said shuttle carriers, pinions on said crank-shafts, gears meshing with said pinions, a shaft supporting said gears and having a crank-arm, a lever pivoted between its ends, connections between one end of said lever and the crank of the gear shaft, and operating devices connected with the other end of said lever, substantially as shown and described.

No. 58,222. Drop Hammer. (Marteau mécanique.)

Fritz Theile, Schwerte, Westphalia, Prussia, 27th November, 1897; 6 years. (Filed 21st September, 1897.)

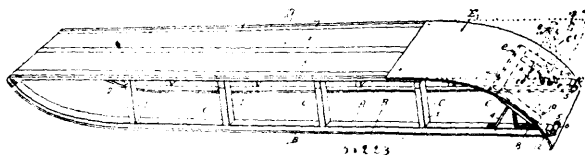
Claim.—1st. In drop hammers of the type referred to, providing a strap drum with projections to act as levers and to effect a better drop of the hammer through the recoil, substantially in the manner herein described and set forth. 2nd. In drop hammers of the type referred to, providing a friction roller outside the drum at the end of a lever rod connected to the strap, to regulate the height of the drop, substantially in the manner herein described and set forth.

No. 58,223. Combined Sled and Toboggan.*(Traîneau et toboggan.)*

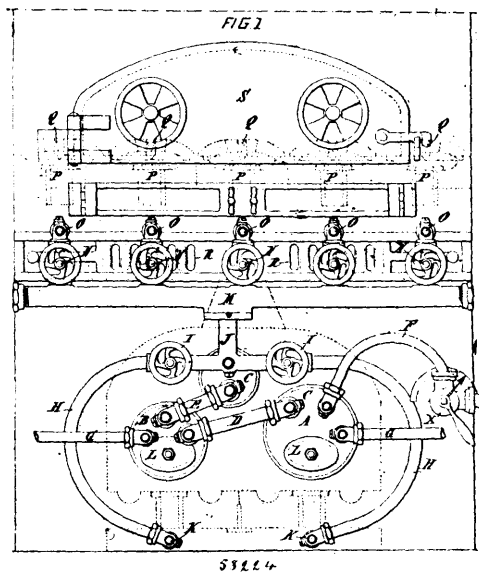
William Patterson, Seattle, Washington, U.S.A., 27th November, 1897; 6 years. (Filed 16th November, 1897.)

Claim.—1st. A combined sled and toboggan comprising a suitable sled body with a top extension of flexible material, collapsible means normally supporting same in horizontal position to provide a sled, and means to secure same in a position curving from said top to pro-

vide a nose and a toboggan of the sled when inverted. 2nd. A combined sled and toboggan, the sled having a suitable top and runners



extending rearward the top, a flexible section to said top with a free end over the extended portion of the runners, collapsible means to support said section parallel to the runners, and means to secure said free end to the runners with said section curving from the top thereto to provide a nose and a toboggan of the sled when inverted. 3rd. A sled having a suitable top, the runners extending rearward the top, a flexible extension to said top over the runners, a collapsible section from the runners to support said extension, suitable means to support the section in an inclined position when collapsed, and means to secure the free end of said extension to said runners and in contact with said collapsed section when curved from said top, to provide a nose and a toboggan of the sled. 4th. A convertible sliding device, comprising runners B, sections C, thereon, supporting top portion d, extension E, to said portion, collapsible section C' normally supporting said extension in a raised position, brackets f, to sustain said section when partly collapsed, and means to oppose the return of said extension when bent upon the collapsed section and runners to form a nose and convert said sled into a toboggan.

No. 58,224. Apparatus for Manufacturing Gas from Hydrocarbons. (Appareil pour la gazéification des pétroles, huiles lourdes, huiles de goudrons, etc.)

Louis Ernest Fraipont, Paris, France, le 27 novembre 1897; 6 ans. (Déposé le 9 novembre 1897.)

Résumé.—Un appareil permettant d'effectuer la gazéification complète des hydrocarbures par la production de distillations et gazéifications fractionnées et successives de ces hydrocarbures, appareil caractérisé par la combinaison d'une série de cornues ou gazéifications A B C en nombre et de forme quelconques, chauffées indépendamment les unes des autres et communiquant entre elles par des tuyaux D E qui permettent de produire dans chacune d'elles les distillations et gazéifications successives, d'évacuer les matières non distillables pendant la marche de l'appareil, d'effectuer la combinaison rationnelle et complète de tous les combustibles gazeux provenant d'hydrocarbures quelconques, par la combinaison d'un dispositif de plancher T à doubles parois entrent lesquelles passent les tubes d'arrivée du gaz O munis d'ajustages convenables. Ces parois étant percées; la paroi supérieure d'ouvertures munies de champignons P, par lesquelles s'échappe et s'étale le gaz enflammé, la paroi inférieure de petites ouvertures servant à l'arrivée d'air nécessaire à la combustion parfaite du gaz avant leur introduction dans le foyer S, soit la suppression d'entrée d'air froid dans le foyer; le tout en principe ainsi que décrit et représenté.