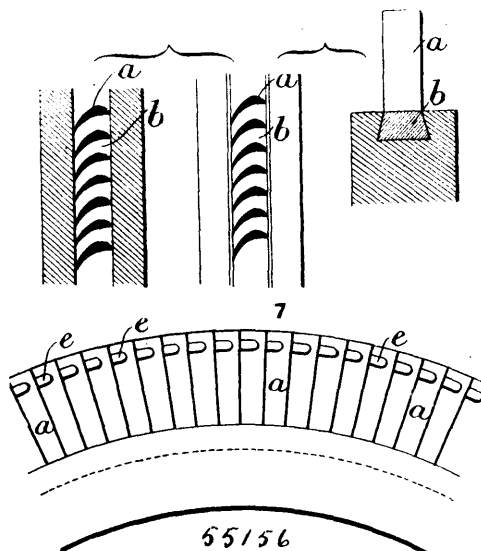


H, H¹, in a position of rest, consisting of a crutch connected to or formed integrally with the lever J, and having a pair of arms *b, b*, connected by rods, chains, wires or cords, such as N, to long levers such as R, or to levers such as O, linked or otherwise connected to levers such as R, mounted upon the front fork tube P, the levers R, being in pivotal connection with an adjustable rod S, attached to a lever such as T, pivoted at *t*, to the handle bar T¹, with means such as *v*, for locking the lever T when raised, substantially as and for the purposes herein described and shown by the accompanying drawing.

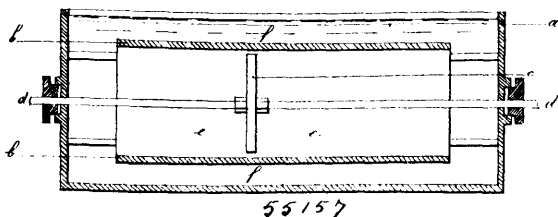
No. 55,156. Manufacture and Fastening of Steam Turbine Blades. (*Fabrication et appareil à assujétir les ailes des turbines à vapeur.*)



Charles Algernon Parsons, Heaton Works, Newcastle-on-Tyne, Northumberland, England, 4th March, 1897; 6 years. (Filed 27th January, 1897.)

Claim.—The manufacture and fastening of steam turbine blades and distance pieces substantially as hereinbefore described and illustrated.

No. 55,157. Hydraulic Pendulum for increasing Motive Power. (*Pendule hydraulique pour augmenter la force motrice.*)



Henri Bean, Paris, France, 4th March, 1897; 6 years. (Filed 25th January, 1897.)

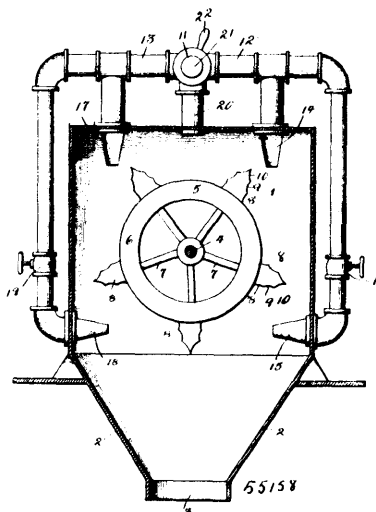
Claim.—An hydraulic pendulum for producing by reaction a motive power which is larger than the power which moves the pendulum, and said pendulum constructed with a vessel of liquid which contains a mass withdrawn from the action of gravity, a piston introduced into said mass, a motive power for moving the piston and thereby imparting the speed of the piston to the mass, and said piston being adapted to receive the power of the liquid mass when reacting, and a channel or channels adapted to permit the liquid to flow around from one to the other side of the piston, substantially as described.

No. 55,158. Water Motor. (*Moteur à eau.*)

James Hurley, Chicago, Illinois, U.S.A., 4th March, 1897; 6 years. (Filed 28th January, 1897.)

Claim.—1st. In a water motor, the combination of a casing having an opening in the lower end thereof, a water wheel mounted to rotate on the inside of said casing, a main supply pipe for water, branch pipes connected thereto, and leading outwardly therefrom, a pair of nozzles in each of said branch pipes entering the casing on opposite sides thereof, the members of each pair of nozzles being disposed at right angles one to the other, and means for regulating the direction of flow of the water in said branch pipes, substantially as and for the purpose described. 2nd. In a water motor, the combination of a casing having an opening in the lower end thereof, a

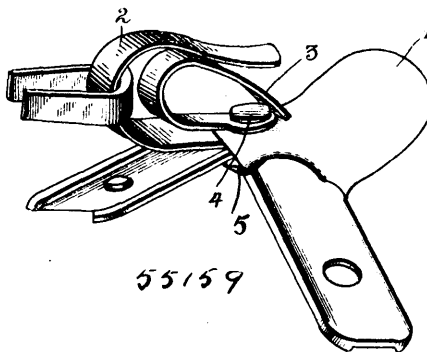
water wheel mounted to rotate on the inside of said casing, a main supply pipe for water, branch pipes leading outwardly therefrom, a



pair of nozzles in each of said branch pipes entering said casing on opposite sides, the members of each pair of said nozzles being disposed at right angles one to the other, a valve or cut-off in each of said branch pipes located between said nozzles, and means for regulating the direction of flow of the water through said branch pipes, substantially as and for the purpose described. 3rd. In a water motor, the combination of a casing having an opening in the lower end thereof, a water wheel mounted to rotate on the inside of said casing, a main supply pipe for water, branch pipes leading outwardly therefrom in opposite directions, an extension entering the upper end of said casing at a point directly above the axis of said water wheel, a nozzle in each of said branch pipes entering the casing on opposite sides thereof, and a three-way valve at the juncture of said main supply pipe, said extension, and said branch pipes, substantially as and for the purpose described.

No. 55,159. Harness Attachment.

(*Attache de harnais.*)



Albert Henry Southwell and Henry Herbert Humphrey, both of Clinton, New York, U.S.A., 4th March, 1897; 6 years. (Filed 25th January, 1897.)

Claim.—1st. The combination with a check hook, of a guard therefor, comprising a spring arm having a rear portion adapted to prevent the check rein from becoming disengaged from the hook. 2nd. The combination with a saddle and a check hook, of a guard made from a single piece of spring metal which is curved forwardly into the check hook, and then rearwardly and downwardly, which latter portion lies adjacent to the bill of the hook, and a bolt passing through the lower portion of the guard, the saddle and the check hook, said bolt being provided with a clamping nut.

No. 55,160. Miniature Ammunition or Practice Cartridge. (*Cartouche.*)

Matthew Mullineux, 17 Maple Street, Cheetham, Manchester, Lancaster, England, 4th March, 1897; 6 years. (Filed 25th January, 1897.)

Claim.—1st. A breech piece or adaptor for adapting miniature or practice cartridges to small bore firearms chambered for a larger cartridge, consisting of a metal casing fitting the breech chamber of the firearm without any openings and adapted to receive the miniature cartridge case and surround it with metal when in the breech, substantially as described for the purpose set forth. 2nd. A breech