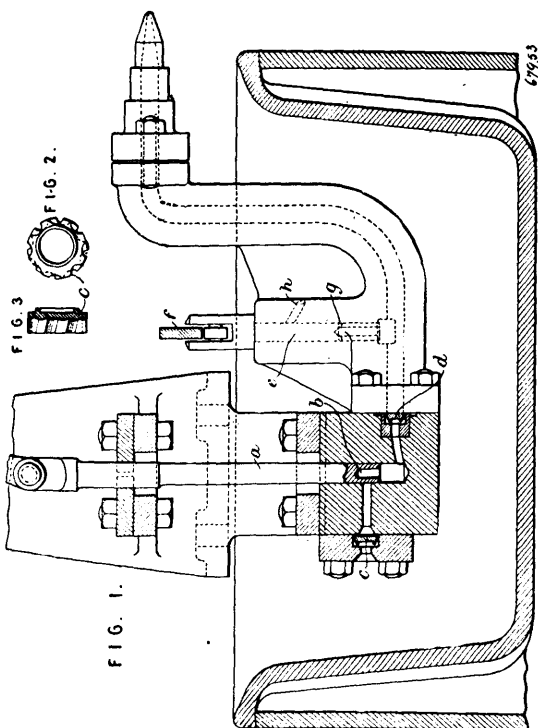


forming the crossing proper, a signal station having one or more switch boards provided with circuit closing switches for the several sections of the sectional track, each switch board having an annunciator, a circuit closing key for communicating a signal from the signal station to a train, a switch for throwing the annunciator in or out of circuit, and a connecting bar common to all the switches by which the latter are connected with the annunciator, and electrical connections between the auxiliary circuit rail and one of the track rails of the one railway and the two track rails respectively of the other railway, whereby the approaching sections of the crossing road are operatively connected with the signal station, substantially as described.

No. 67,953. Type Casting Apparatus.

(Machine pour couler les caractères.)



Frederick Wicks, Halfway Lodge, Esher, Surrey, England, 3rd July, 1900; 6 years. (Filed 6th December, 1899.)

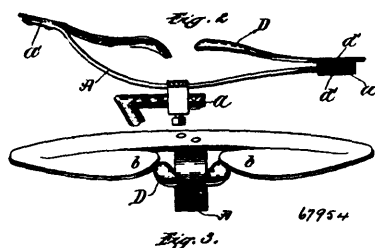
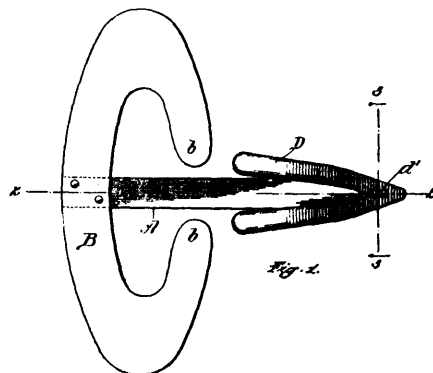
Claim.—1st. In the pump for injecting molten metal into type moulds, a bore hole formed in the plunger, for the purpose specified. 2nd. For the pump for injecting molten metal into type moulds, a valve consisting of a disc with oblique notches cut in its circumference and with an eccentric rib on its face, substantially as and for the purpose set forth. 3rd. In combination with a pump for injecting molten metal into type moulds, a relief valve consisting of a loaded plunger having a longitudinal and cross bore and located in a cylindrical bore having a downwardly sloped transverse outlet, substantially as described. 4th. In a rotary type casting machine, the combination of a stationary cam adapted to cause protrusion of the types as they are carried round by the mould wheel, a revolving cutter adapted to cut the notch in the end of the type, and one or more revolving cutters for cutting nicks in the side of the type, with means of driving these cutters from the driving gear of the mould wheel, substantially as described.

No. 67,954. Bicycle Saddle. (Selle de bicyclette.)

Robert P. Blake and Patrick Brodie, both of Boston, Massachusetts, U.S.A., 3rd July, 1900; 6 years. (Filed 3rd May, 1900.)

Claim.—In a saddle, the combination of a supporting spring, frame plate B secured at the rear end of said spring and curving

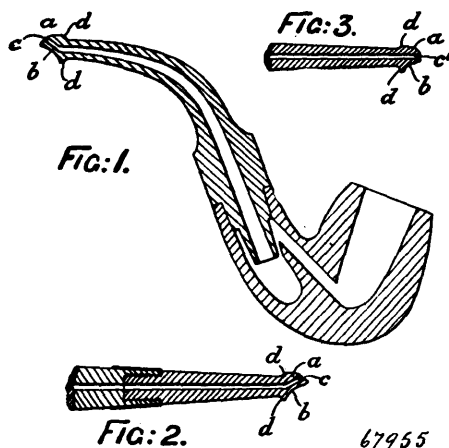
around to the points *b b*, suitably separated from each other, and a forked neck D mounted upon the supporting spring at its forward



end and projecting backward to co-operate with the seat part of the saddle, substantially as described.

No. 67,955. Mouthpiece for Tobacco Pipes.

(Tuyau de pipe à tabac.)



Charles Peterson, Dublin, Ireland, 3rd July, 1900; 6 years. (Filed 18th January, 1899.)

Claim.—1st. A mouthpiece for tobacco pipes, cigar holders or cigarette holders having in combination an upwardly extending bore *c*, a groove *b* and stops *d*, all for the purposes and substantially as set forth. 2nd. In a mouthpiece for tobacco pipes, cigar holders or cigarette holders, a lip *a*, having a groove *b*, substantially as set forth.

No. 67,956. Underground Electric Railway.

(Chemin de fer électrique souterrain.)

Henry Emmel and George Beuke, assignee of William J. Baumer, all of Johnstown, Pennsylvania, U.S.A., 3rd July, 1900; 6 years. (Filed 5th March, 1900.)

Claim.—1st. In an electric railway, the combination with a perforated conduit, of a series of boxes, one for each perforation, the cover for which is turned down upon two of its opposite edges, one of the walls of the box being provided with lugs and the opposite