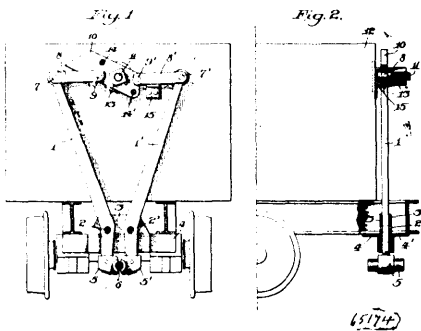
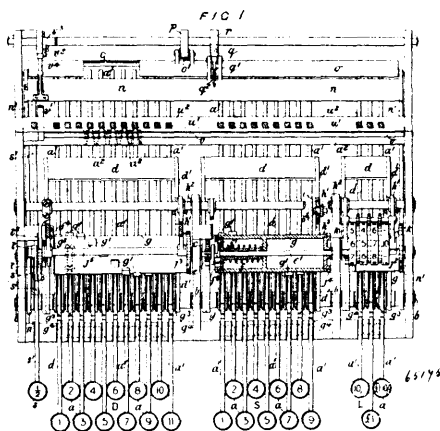


links, and means for holding said gripper in closed position, substantially as specified. 4th. In a gripper, a pair of independently



fulcrumed gripping levers, a fulcrumed rocking lever, and means for connecting said rocking lever with each of said gripping levers, substantially as specified.

No. 65,175. Cash Register. (Registre de monnaie.)



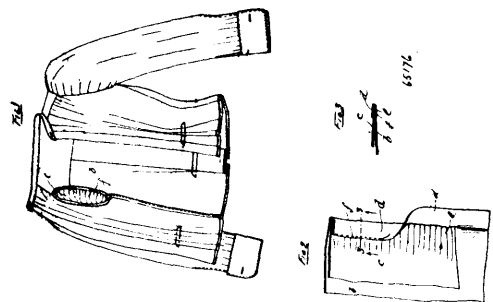
The Empire Cash Register, assignee of Charles James Fauval and Norman Collins, all of London, England, 2nd December, 1899; 6 years. (Filed 9th December, 1899.)

Claim.—1st. In a cash registering machine, the combination with a set of keys, of a spring actuated barrel having peripheral studs set at angular distances from the zero point proportional to the values represented by the corresponding keys and of mechanism whereby the winding up of the spring to a constant extent and the release of the barrel from the zero position are effected by the depression of any one key of the set, each key when depressed being adapted to engage with its corresponding stud and arrest the barrel after a partial revolution corresponding in extent to the value of the key depressed, substantially as and for the purpose specified. 2nd. In a cash registering machine the combination with a set of keys of a spring actuated barrel, having peripheral studs set at angular distances from the zero point proportional to the values represented by the corresponding keys, and of mechanism whereby the winding up of the spring to a constant extent and the release of the barrel from the zero position are affected by the depression of any one key, each key when depressed being adapted to arrest the barrel after a partial revolution corresponding in extent to the value of the key depressed and of mechanism actuated by the depression of any one key, whereby registering mechanism is geared with the barrel so as to be actuated thereby to an extent corresponding to the partial revolution of the barrel and whereby the registering mechanism is disengaged when the barrel is permitted to complete one revolution, substantially as specified. 3rd. In a cash registering mechanism comprising a set of key levers and a spring actuated barrel having studs angularly spaced around the barrel for engagement by respective key levers, the combination with each key lever, of a stop so acted on by the key lever as to be presented in the path of the corresponding stud early in the stroke of the key lever in the one direction, and be withdrawn from engagement with said stud late in the stroke of the key lever in the other direction so as to enable the mechanism controlling the release of the barrel from the zero position and its re-arrest in that position to be operated by part of the stroke of the key lever, as specified. 4th. In a cash registering mechanism comprising a set of key levers and a spring actuated

barrel having studs for engagement by respective keys, the studs being angularly spaced around the barrel in proportion to the respective values of the keys, and means whereby the spring is wound and the barrel released from zero position by the depression of any one key, the combination with the stud barrel, of registering mechanism and of means whereby the registering mechanism is geared with the barrel only during that part of its revolution between the zero position and its arrest by the key, so that the registering mechanism will be actuated to an extent corresponding to the value represented by the key which has been depressed, substantially as specified. 5th. In a cash registering machine the combination with a set of key levers, of a bar adapted to be raised by the oscillation of any one lever of the set and of a locking bar hinged thereto and adapted to engage the levers of the set, and of a stationary guide cam adapted by its form to act on the locking bar and cause the latter to enter into locking engagement only with the lever operated immediately after said lever commences to move, and to remain in engagement therewith throughout its stroke and to release it only on its return to normal position, substantially as specified. 6th. In a cash registering machine the combination with a set of key levers, of a bar adapted to be raised by the oscillation of any one lever of the set and of a locking bar hinged thereto and adapted to engage the levers of the set, and of a stationary guide cam adapted by its form to act on the locking bar and cause it to enter into locking engagement only with the lever operated immediately after it commences to move and to remain in engagement therewith throughout its stroke and to release it only on its return to normal position, and of means whereby the return of the locking bar and lever engaged thereby is prevented until the completion of the stroke, substantially as specified. 7th. In a cash registering machine comprising two or more sets of key levers, said sets being respectively appropriated to register the receipt of sums of a particular denomination the combination with the two or more sets of key levers, of a presser bar common to all and adapted to be raised by any lever of either set and of a locking bar hinged to such presser bar and adapted to engage such of the levers of all the sets as may be oscillated at one time and of a guide cam adapted to act on the locking bar and to cause it to enter into locking engagement with the levers of different sets which may be simultaneously oscillated, to the exclusion of the others, and to remain in engagement therewith throughout the stroke and to release them only on return to normal position so that the stroke of all the keys simultaneously depressed to a partial extent will be completed by the complete depression of anyone of them, substantially as specified. 8th. In a cash registering machine comprising two or more sets of key levers, said sets being respectively appropriated to register the receipt of sums of a particular denomination, the combination with the two or more sets of key levers, of a presser bar common to all and adapted to be raised by any lever of either set, and of a locking bar hinged to such presser bar and adapted to engage such of the levers of all the sets as may be oscillated at one time and of a guide cam adapted to act on the locking bar and to cause it to enter into locking engagement with the levers of different sets which may be simultaneously oscillated, to the exclusion of the others, and to remain in engagement therewith throughout the stroke and to release them only on return to normal position so that the partial stroke of all the keys simultaneously depressed will be completed by the complete depression of any one of them, substantially as described, and of means whereby the return of the locking bar and lever engaged thereby is prevented until the completion of the stroke, as specified.

No. 65,176. Garment Manufacture.

(Fabrication de vêtement.)



Anthony Haig Sims, assignee of Alan Judah Hart, both of Montreal, Quebec, Canada, 2nd December, 1899; 6 years. (Filed 9th November, 1899.)

Claim.—1st. In a shirt waist or upper body garment, the seams connecting the body portion with the sleeves being formed by a portion of the body fabric overlapping the edge of the sleeve fabric and a line of stitching passing through the sleeve fabric and the overlapping portion of the body fabric on one side thereof and the