



Espacenet

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Improvements in Adding Machines.

No documents available for this priority number.

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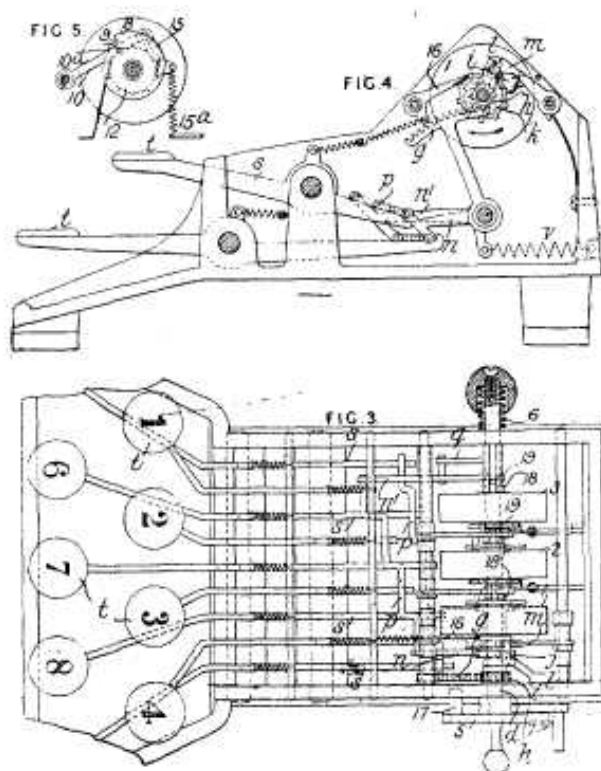
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Classification: - **international:**
- **cooperative:**

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Abstract of GB190224868 (A)



24,868. Postans, A. J. Nov. 12. Calculating - apparatus. -In an adding-machine, the ratchet k of the units drum 1 of the registering- drums 1, 2, 3 is actuated by a pawl j carried by an arm i on a pinion h, which is rotated by a toothed quadrant g, operated by the engagement of the hooked ends of the levers s of the finger keys t with bars p mounted on T - ended levers n, n<1>, of which the lever n is an arm of the quadrant lever g. To render the stroke of all the finger keys t equal, the bars p are stepped, and the lower row of levers s, which have to give the longer travel to the quadrant g, engage the bars p at a greater distance from the axis than the upper levers. Thus the depression of a finger key t causes the quadrant g to travel through an arc, the length of which is dependent on the number on the finger key depressed, and the pawl j to travel over a corresponding number of teeth on the ratchetwheel k. On releasing the finger key, the spring v returns the quadrant g to its normal position, thereby moving the pinion h, the lever i, and the pawl j in the reverse direction, turning the ratchet k and the drum l the number of teeth or spaces represented by the number on the key depressed. The hooks on the levers, s prevent the overrunning of the quadrant g, and the overrunning of the drum is prevented by a stop l abutting against a spring detent m, while a spring detent 16 prevents the drum from turning in the backward direction. The carrying over from one drum to the next can be effected in any known manner, or by the mechanism shown in Fig. 5, in which a snail cam 8 on the drum, as it revolves, gradually raises the lever 10 and pawl 15 in opposition to a spring 15<a> until the pin 9, having arrived at the highest point of the cam 8, suddenly drops and causes the ratchet 12 and the drum to move one tooth or division, its further movement being prevented by a stop 10<a>. The return of the indicating-drums to their zero position to enable a fresh addition to be made is effected by a handwheel 5, which is normally locked by a stud 17 and a spring catch 7. After the wheel 5 has been released by pressing the axle d against the spring 6 and by holding back the catch 7, it is turned, causing a lever q to rock the quadrant g and disengage the pawl k, so that the units drum 1 can be moved into the zero line when pins 18 on the drums or snail cams are engaged by pins 19 on the axle d.