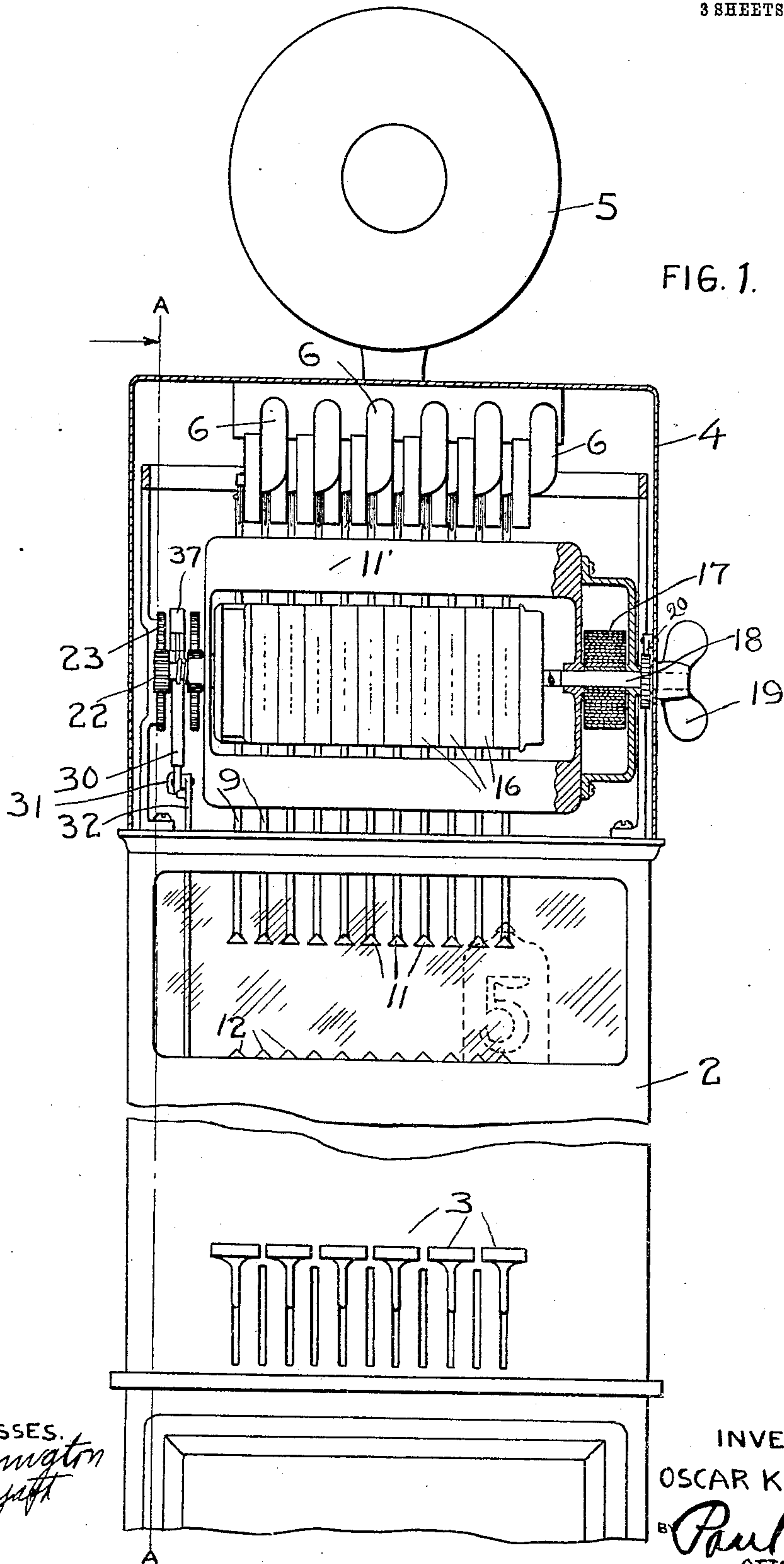


O. K. SLETTTO.
ATTACHMENT FOR CASH REGISTERS.
APPLICATION FILED OCT. 28, 1907.

931,349.

Patented Aug. 17, 1909.
3 SHEETS—SHEET 1.



WITNESSES.
[Signature]
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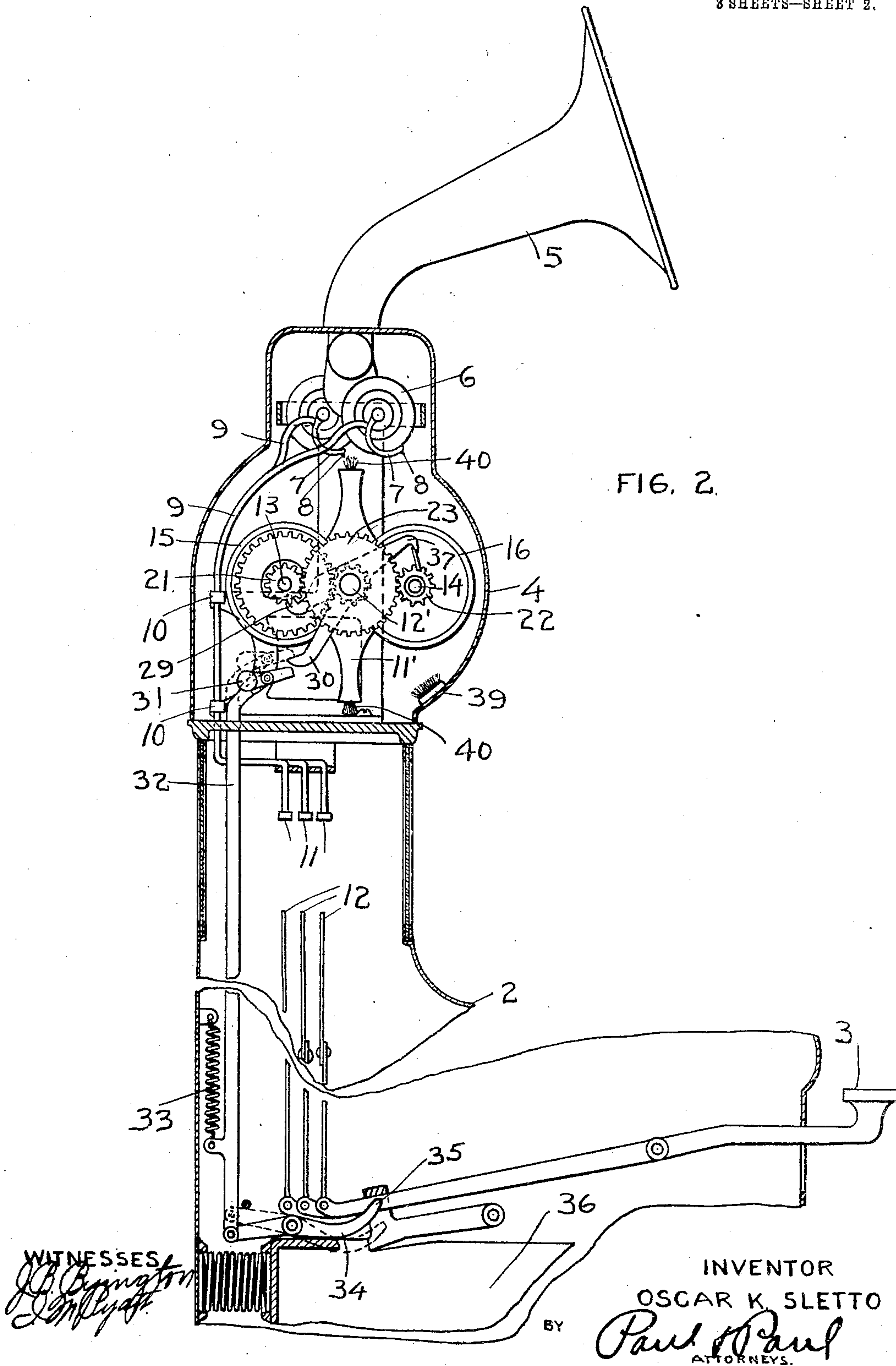
INVENTOR
OSCAR K. SLETTTO.
BY *Paul & Paul*
ATTORNEYS.

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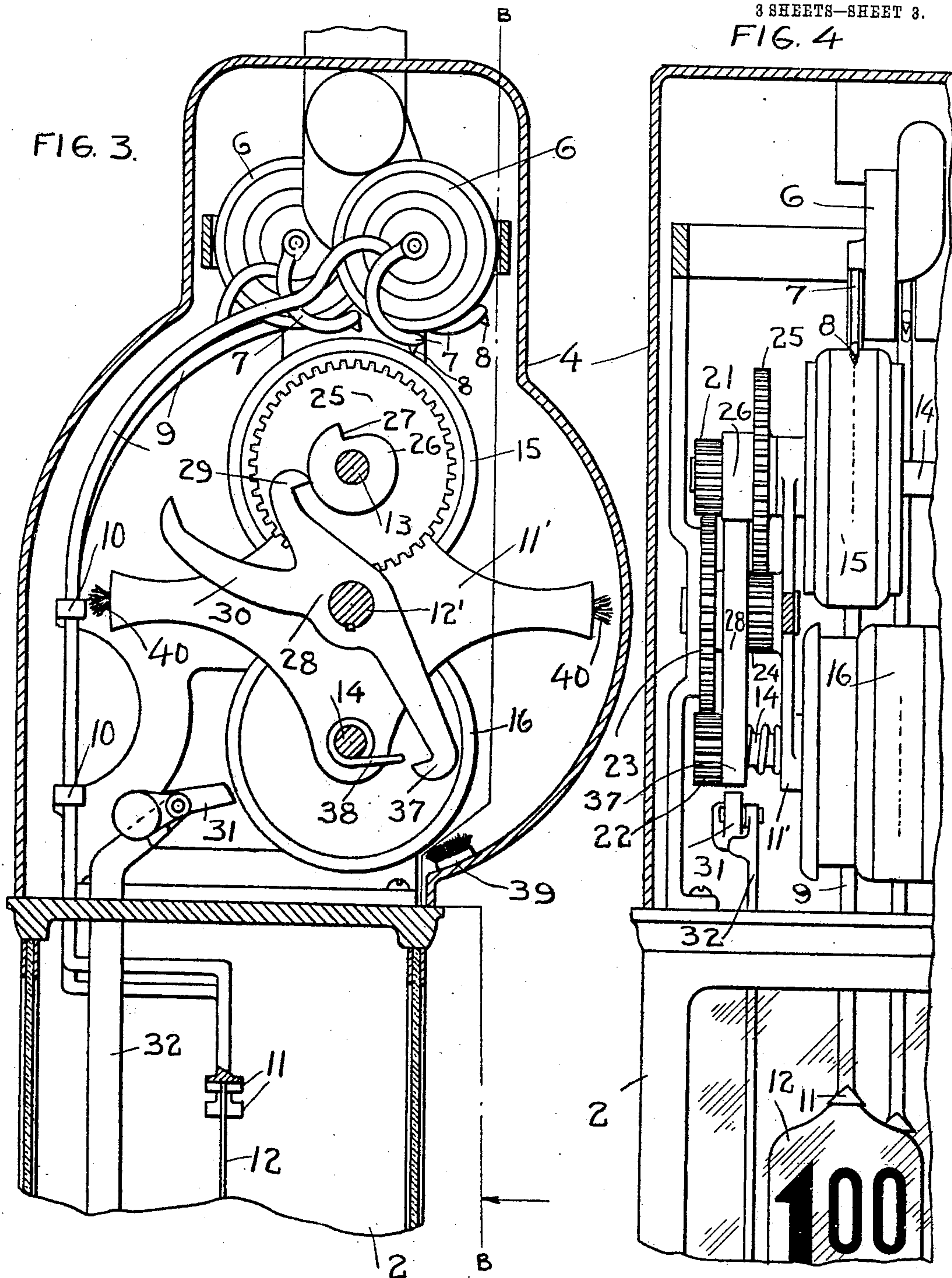
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3 SHEETS—SHEET 3.

FIG. 4



WITNESSES
J. B. Cunningham
L. M. Bryant

INVENTOR
OSCAR K. SLETTTO
BY *Paul & Paul*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

OSCAR K. SLETT, OF BLACKDUCK, MINNESOTA, ASSIGNOR OF ONE-THIRD TO ESKEL PETERSON AND ONE-THIRD TO PETER SPILMAN, OF BLACKDUCK, MINNESOTA.

ATTACHMENT FOR CASH-REGISTERS.

No. 931,349.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed October 28, 1907. Serial No. 399,432.

To all whom it may concern:

Be it known that I, OSCAR K. SLETT, of Blackduck, Beltrami county, Minnesota, have invented certain new and useful Improvements in Attachments for Cash-Registers, of which the following is a specification.

The object of my invention is to provide a phonographic attachment for a cash register whereby when a sale is made and the keys are operated to represent the amount of the purchase the phonograph will audibly reproduce the amount indicated by the keys.

The invention consists generally in a cash register and a phonograph having a mechanism actuated by the movement of the keys for setting the phonograph in operation.

In the accompanying drawings, forming part of this specification, Figure 1 is a front view partially in section of a cash register with my invention applied thereto. Fig. 2 is a vertical sectional view on the line *a—**a* of Fig. 1. Fig. 3 is an enlarged detail sectional view showing the operating mechanism between the phonographic records and the register keys. Fig. 4 is a vertical sectional view on the line *b—b* of Fig. 3.

In the drawings, 2 represents a cash register of ordinary type. I make no claim to any part of this machine as it corresponds to those now in general use. It is provided with a series of keys 3 also corresponding to those on the cash registers in general use. Upon the top of the registers I arrange a casing 4 from which the phonographic horn 5 projects and below and communicating with the horn are the series of reproducers 6 also common to phonographic instruments. These reproducers are provided with curved arms 7 having pins 8 which engage the cylinder records. A series of rods 9 are vertically movable in guides 10 and are provided at their lower ends with heads 11 which are engaged by indicator tablets 12 mounted on the cash register keys. In the normal position of the rods 9 the arms 7 are held out of contact with the records but when the rods are raised, as by the depression of a register key the reproducer arm will be released and the pin will drop down upon the surface of the cylinder.

11' represents a frame supported upon a central shaft 12' in the casing of the phonograph.

13 and 14 are shafts mounted in the frame

and adapted to revolve in their bearings and also turn with said frame around the shaft 12'. Each shaft 13 and 14 is provided with a series of record cylinders 15 and 16, representing respectively the dollars and cents keys of the cash register, and these cylinders are arranged so that they will contact with their respective reproducers whenever a key is depressed and the reproducer representing that key is released. The shaft 12' is operated by means of a spring 17 having a shaft 18 provided with a thumb nut 19 for winding purposes and a ratchet device 20 to prevent backward movement. Pinions 21 and 22 are secured on the shafts 13 and 14 meshing with an intermediate gear 23 secured on the shaft 12'. A pinion 24 is secured on the shaft 12' and meshes with a gear 25 that is loosely mounted on the shaft 13 and carries a disk 26 having a notch 27 in its periphery. A lever 28 is mounted on the shaft 12' and has a hook 29 adapted to enter the notch 27 and lock the phonographic mechanism against operation.

An arm 30 is provided on the lever 28 and projects outwardly therefrom into the path of a weighted latch device 31 pivoted on the upper end of a bar 32. This bar extends down through the register, is normally held in its raised position by a spring 33 and is pivotally connected at its lower end to a lever 34 that has a curved portion 35 in the path of the cash drawer 36. When this drawer is drawn out the tension of the spring 33 will oscillate the lever 34, raise the bar 32 to the position indicated by dotted lines in Fig. 2 to a point above the arm 30. Then when the drawer is shut and engages the curved portion of the arm 35, the bar 32 will be pulled downwardly and the latch device 31 engaging the arm 30 will trip the lever 28 and release the phonographic mechanism, whereupon the reproducers having been set and allowed to contact with their respective cylinders through the action of the register keys will reproduce audibly the amount of the purchase in dollars and cents.

The gear mechanism heretofore described between the central shaft and the shafts on which the cylinders are mounted, is for the purpose of reducing the speed and allowing the hook 29 to travel slowly on the periphery of the disk 26 and reach the notch 27 therein, when the reproducer pin has traversed the surface of the cylinder. There will be ample

time therefore, before the motion of the mechanism is raised, for the distinct audible reproduction of the amount of the purchase. A hook 37 is provided on the lever 28 and
 5 adapted to engage a spring 38 on the shaft 14, when the hook 29 drops into the notch 27 in the disk 26. In this position of the lever the cylinder shafts will be locked and will remain in that position until the lever is
 10 tripped by the movement of the bar 32.

In the position shown in Fig. 2 the cylinders will be stationary, being locked by the hooked ends of the lever, the hooks counteracting the tendency of the spring to revolve
 15 the cylinder shafts. A fixed brush 39 is provided in the casing of the phonographic mechanism for the purpose of keeping the surfaces of the cylinders clean, and brushes 40 are provided on the frame 17 in position to
 20 engage the reproducer pins and keep them clean also.

I do not in this application wish to be confined to any particular type of phonograph or mechanism connecting it with the keys of the
 25 register, my invention consisting in the application of a phonographic mechanism to a register whereby upon the manipulation of the register keys and the opening and closing of the cash drawer the amount of the purchase in dollars and cents will be audibly re-
 30 produced.

I claim as my invention:—

1. The combination with a cash register, of a phonographic mechanism mounted on
 35 said register and outside its casing, said mechanism including revolving records and reproducers and means projecting within said register casing and normally holding said reproducers in an inoperative position,
 40 said means being actuated by the movement of the register keys to release said reproducers.

2. The combination with a cash register, of a phonographic mechanism detachably
 45 mounted thereon and having records for the dollars and cents keys, mechanism including longitudinally moving locking rods actuated by the operation of the cash register keys for releasing the phonographic reproducers, and
 50 means controlled by the movement of the cash drawer for releasing the records and starting the phonographic mechanism.

3. The combination, with a cash register, of a phonographic mechanism comprising
 55 records corresponding to the dollars and cents keys, and reproducers having pins, rods arranged to hold said reproducers in an inoperative position but adapted to be operated when the cash register key is de-
 60 pressed to release said reproducers, and means actuated by the movement of the cash drawer for releasing the phonographic mechanism and causing the records to be moved into contact with said reproducers.

65 4. The combination, with a cash register,

of a phonographic mechanism mounted thereon and having a suitable horn and reproducers, locking rods actuated by the movement of the cash register key, a revolving frame, records mounted in said frame
 70 and corresponding respectively to the different keys of the register, means for revolving said records, means for locking them in their inoperative position, and a bar actuated by the movement of the cash drawer for tripping
 75 said locking means and allowing the records to contact with said reproducers.

5. The combination with a cash register, of a phonographic mechanism adapted to be mounted thereon outside of the register cas-
 80 ing and comprising revolving records arranged in groups representing the dollars and cents, reproducers arranged to contact with said records, means for normally holding each reproducer in an inoperative position,
 85 said means projecting within the register casing and actuated by the movement of the register keys.

6. The combination with a cash register, of a phonographic attachment therefor, com-
 90 prising records representing dollars and cents, a spring actuated mechanism for revolving said records, reproducers, means normally holding said reproducers in an in-
 95 operative position and actuated by the movement of the register keys, means for locking said spring actuated mechanism and means operated by the movement of the cash drawer for tripping said locking means.

7. The combination with a cash register, 100 of a phonographic mechanism mounted on said register outside of its casing and comprising revolving spring actuated records and a series of reproducers arranged to contact
 105 with said records, a brush device arranged to contact with said reproducers and means for normally holding said reproducers in an inoperative position, said means being actuated by the register keys to release said reproducers, substantially as described. 110

8. The combination with a cash register, of a phonographic mechanism mounted thereon and including reproducers, means actuated by the movement of the register keys for rendering said reproducers inoper-
 115 ative, means for locking said phonographic mechanism and means actuated by the movement of the cash drawer for tripping said locking means and allowing said mechanism to become operative after said repro-
 120 ducers have been released by the movement of the keys.

9. The combination with a cash register, of a casing adapted to be mounted on the top of the same, a phonographic mechanism ar-
 125 ranged within said casing and comprising revolving records with means for operating the same, a locking device for temporarily preventing revolution of said records, reproducers and means normally holding them out 130

of contact with said records, said means extending downwardly through the top of the register casing and adapted to be actuated by the movement of the register keys to release said reproducers and said locking device having a tripping means that is actuated by the movement of the cash drawer to release said records after said reproducers

have been set by the movement of the register keys. 10

In witness whereof, I have hereunto set my hand this 21st day of October 1907.

OSCAR K. SLETT.

Witnesses:

ERNST L. OBERG.

LOUISE PENAULT.