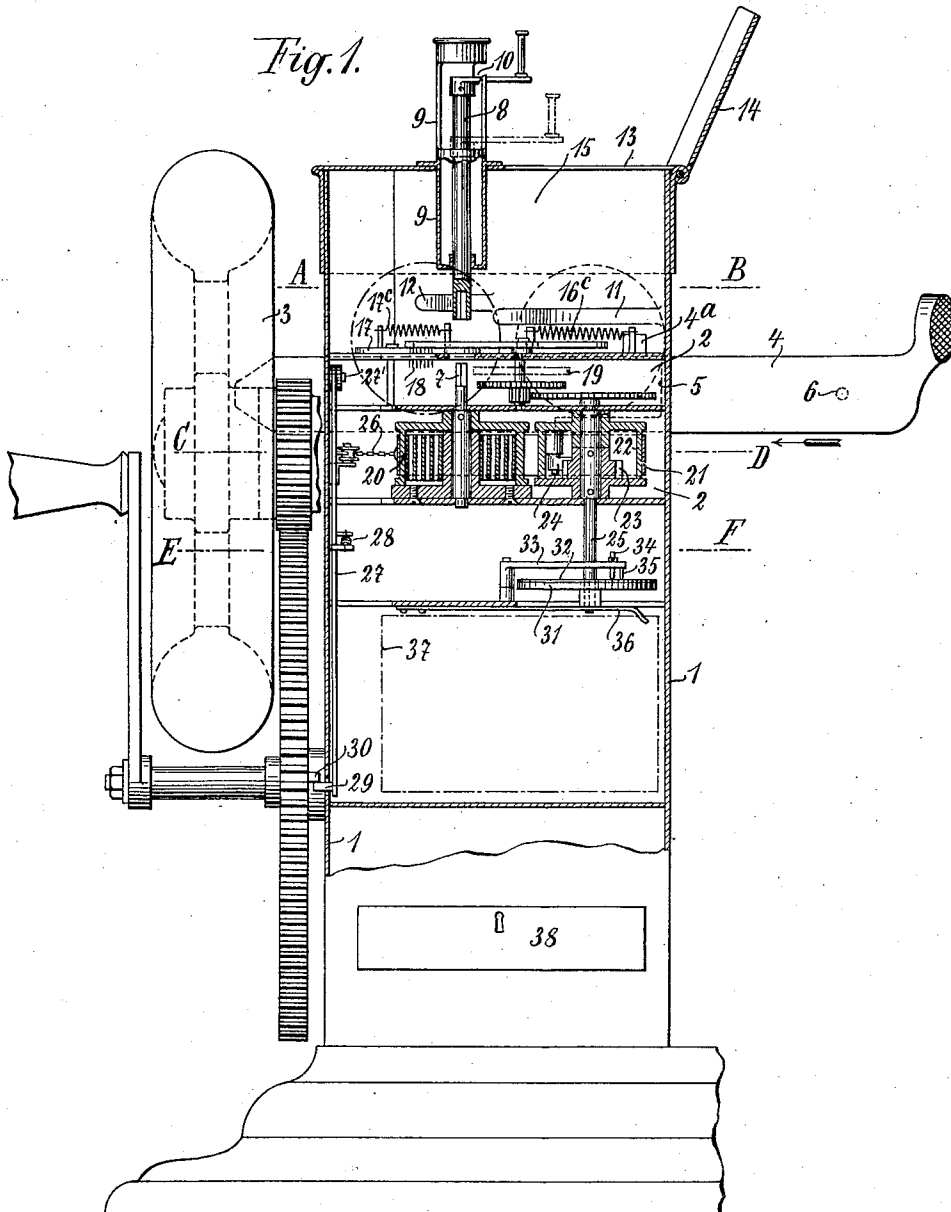


E. A. A. SABARD.
 AUTOMATIC LOCKING DEVICE FOR SEWING MACHINES WITH COUNTING AND
 REGISTERING MECHANISMS.
 APPLICATION FILED APR. 1, 1912.

1,056,838.

Patented Mar. 25, 1913.

2 SHEETS—SHEET 1.



Witnesses.

Richard Bayer
 John Walker

Inventor

Edward Adelin Abille Sabard

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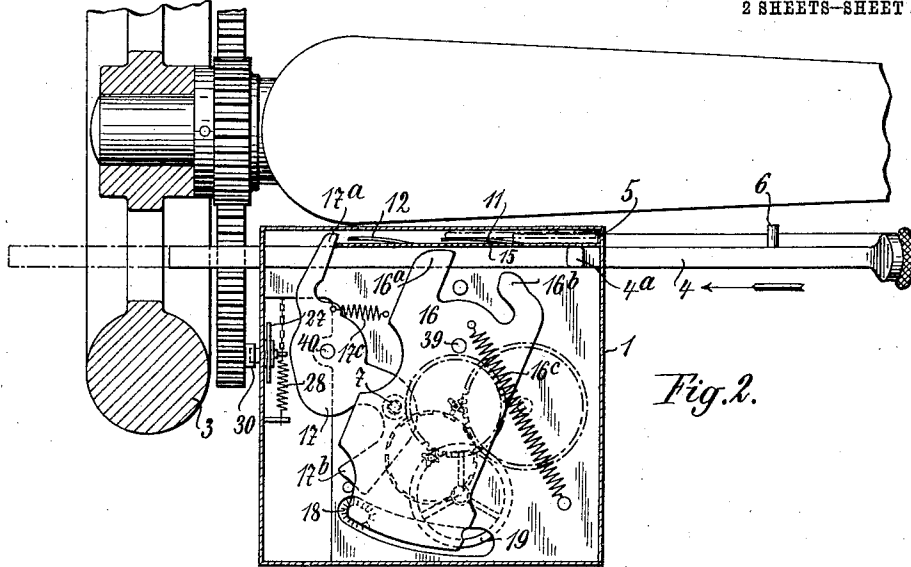


Fig. 2.

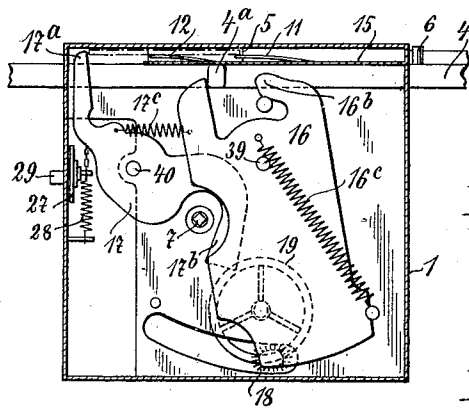
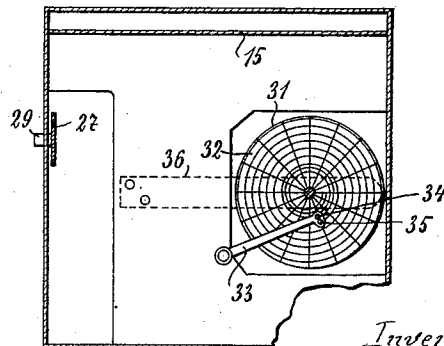
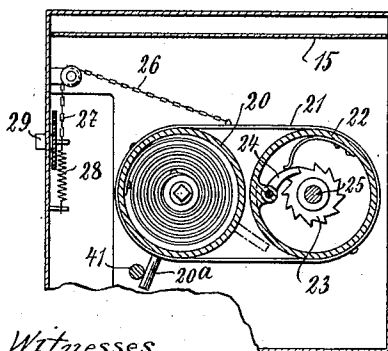


Fig. 3.

Fig. 4.

Fig. 5.



Witnesses

Richard Bayar
 John Walker

Inventor

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UNITED STATES PATENT OFFICE.

EDOUARD ADELIN ACHILLE SABARD, OF BLOIS, FRANCE.

AUTOMATIC LOCKING DEVICE FOR SEWING-MACHINES WITH COUNTING AND REGISTERING MECHANISMS.

1,056,838.

Specification of Letters Patent.

Patented Mar. 25, 1913.

Application filed April 1, 1912. Serial No. 687,789.

To all whom it may concern:

Be it known that I, EDOUARD ADELIN ACHILLE SABARD, a citizen of the French Republic, residing at Blois, Republic of France, have invented certain new and useful Improvements in Automatic Locking Devices for Sewing-Machines with Counting and Registering Mechanisms, of which the following is a specification.

This invention relates to an automatic locking device for sewing machines which is constructed in such a manner that after the insertion of a coin a clockwork can be wound up which permits of using the sewing machine for example for one hour.

The apparatus is used for letting sewing machines on hire.

In the accompanying drawings the apparatus is shown by way of example.

Figure 1 is a section of the apparatus, the side wall of the casing being removed. Fig. 2 is a section on line A—B of Fig. 1; Fig. 3 is a plan view representing the shutters open so that the axle of the clockwork is accessible for the winding up. Fig. 4 is a section on line C—D of Fig. 1. Fig. 5 is a section on line E—F of Fig. 1.

The apparatus essentially comprises a casing 1 fixed upon the rear part of the foot plate of the sewing machine and as close as possible to the hand wheel. This casing 1 contains a clockwork 2 and a counting and registering mechanism. The casing 1 is open at its upper part and closed by a lid which can be removed for inserting the clockwork 2. The lid carries the key 8 for winding up the clockwork and it has a slot 13, which, after use, is covered by a slide 14 in order to protect the mechanism against dust. The slot 13 serves for the insertion of the coin.

A lever 4 traverses the casing 1 and its end engages between the spokes of the hand wheel 3 so that the sewing machine is locked. The coin, a two cent piece for example, drops upon the lever 4 after it has been inserted into the slot 13, so that, if the lever 4 is pushed in the direction of the arrow, the shoulder 4^a of said lever releases through the intermediary of the extension 16^a the first shutter 16 which by means of the friction nipple 18 stops the clockwork 2 or throws the same in gear. The coin which has been drawn along with the lever 4 pushes against the extension 17^a and thus releases

the second shutter 40. At this moment the square end 7 of the axle of the clockwork is accessible (as shown in Fig. 3), so that the key can be inserted for winding up the clockwork which thus can run for one hour. The key is located in a sleeve 9 which is mounted in the lid of the casing and has an opening which permits of moving the key for winding up the clockwork. When the clockwork has been wound up the key is removed and placed into an incision 10. The first shutter 16 serves for stopping through the intermediary of the friction nipple 18 the clockwork 2 when the sewing machine is not used (at this moment the hand wheel 3 is locked by the lever 4). The shutters 16 and 40 serve for preventing the winding up of the clockwork without the insertion of a coin. With this object in view the shoulder 4^a of the transverse lever 4 butts against the extension 16^b of the shutter when the lever 4 is being displaced for releasing the hand wheel of the sewing machine, so that the shutter 16 is brought back to its normal position which is however possible only if the key has first been removed from the square end of the axle of the clockwork.

In alinement with the square end 7 of the axle of the clockwork a transmitting barrel 20 having six openings is fixed. With these openings engage pawls of a flexible band. From the rim of the barrel projects a finger 20^a. The end of a chain 21 is further attached to said barrel which is wound around the spring barrel 22 so that the two barrels move in unison. An arm 27 carrying a stud 29 comes in engagement with a catch 30 of the toothed wheel of the sewing machine and stops the same when the hour is over for which the clockwork has been wound up. This arm 27 can further be pushed in engagement with the toothed wheel of the sewing machine from the transmitting barrel 20 with which it is connected by any convenient means.

The coin is guided by a conduit 5 having springs 11, 12 so that the coin cannot drop into the casing 1 unless it has operated the second shutter 40. The springs further prevent the return of the conduit 5.

The counting and registering mechanisms (Fig. 5) essentially comprise a metal disk 31 upon which a sheet 32 of white cardboard is placed. This disk has spiral grooves which serve for guiding a stylus 33 which

acts like a spring and carries at its end a pencil 34 sliding in the grooves of the metal disk 31. The line traced by the pencil 34 upon the sheet 32 of cardboard indicates by its length the frequency of the work and suitable divisions marked upon the cardboard facilitate the adding up.

I claim:—

10 A locking device for sewing machines, comprising in combination a metal casing fixed upon the rear part of the foot plate of the sewing machine and having a slot for the insertion of a coin, a push-lever 15 transversely mounted in the casing so that its end engages between the spokes of the hand wheel of the machine, a clock-work

going for a determined time mounted in said casing, shutters preventing access to the axle of said clock-work, mechanisms for 20 releasing said shutters after the insertion of a coin if the lever is pulled out of the hand-wheel and means for automatically locking the hand-wheel of the sewing machine when the clock-work stops, substantially as de- 25 scribed and shown and for the purpose set forth.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

EDOUARD ADELIN ACHILLE SABARD.

Witnesses:

H. C. COXE,

RICHARD BAYER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."