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KEY LOCKING DEVICE FOR CASH REGISTERS

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UNITED STATES PATENT OFFICE.

**KEY LOCKING DEVICE FOR CASH REGISTERS.** 

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To all whom it may concern:

fication.

The present invention relates to a key prevented from being withdrawn. 10 locking device for cash registers, the char- Rigidly connected to the key B is an arm 65 acteristic feature of which is that the key H which extends at right angles to the key is positively connected to a plug of a safety B (see Figures 1 and 2) and projects lock which is locked when the key of the through a slot  $a^4$  in the casing  $a^1$  and enlock is not inserted and unlocked when this gages with its free end  $h^1$  in a helical groove 15 key is inserted in the lock. The new lock-  $c^3$  in the plug C. The arrangement is also 70 ing device differs by this feature advan- so devised that when the key  $\overline{B}$  is depressed tageously from the known locking devices the plug C has a rotation of 90° imparted to of this kind, in which the key is so connect- it by the cooperation of the arm H with the ed to a safety lock that the key is only re- groove  $c^3$ . 20 leased by rotating the lock key inserted in  $\overline{\phantom{0}}$  The extension  $c^1$  of the plug C is provided 75 the lock.

pins F bear locking pieces G which are Be it known that I, EDUARD OSTMEYER, movable in a radial slot  $a^{3}$  in the casing  $a^{1}$ residing at Essen-Margarethenhole, Ger- and acted upon by springs  $g^1$ . By means of many, a citizen of the German Republic, the described tumbler the plug C is prevent-5 have invented a certain new and useful Im- ed from rotating when the key of the lock is 60 provement in Key Locking Devices for Cash withdrawn, as is well known, while after the Registers, of which the following is a speci- key has been inserted the plug can be rotated and when it has been rotated the key is

with an excentrically arranged cam  $c^4$ . In

The invention will be described with ref- the position of rest of the plug C this cam erence to an example of the subject-matter lies outside the path of an adjusting memof the invention shown in the accompanying ber J (see Fig. 1) of the till which is moved 25 drawing, in which:

Fig. 1 is a horizontal section through a key board above a key and the plug of the cam  $c^4$  is moved into the path of the member corresponding safety lock.

Fig. 2 is a view corresponding to Fig. 1 30 with the parts in a different position.

Furthermore, on a larger scale,

the safety lock and

35 Fig. 3.

In the key board A there is arranged driving motor in the well known way. alongside each key B which registers the The locking of the key connected to the particular operator using the cash register safety lock is undone as previously exa safety lock (see Figures 1 and 2) the cas- plained by the introduction of the key E 40 ing of which is formed by a part  $a^1$  of the into the lock, and it is therefore not neces- 95 key board and whose plug is denoted by C. sary to rotate the key also by hand for the The plug C which is provided with a jour- purpose of releasing the key B. On the denal-shaped extension  $\tilde{c}^1$  is adapted to rotate pression of the released key B the key E is in a should red down boring  $a^2$  in the cas- locked against being withdrawn and the in the boring  $a^2$  by a ring D screwed into to the foot  $b^1$  of the key B which acts as a the front wall of the casing  $a^1$ . for this purpose a radial longitudinal slot ond stop (the cam  $c^4$ ) is simultaneously also  $c^2$  in it (see Figures 3 and 4) the inner part moved into the path of a second gear memof which serves to guide the key E of the ber (J) which effects the adjustment of say lock and the outer part of which receives a the operator's distinctive letter. 55 number of tumbler pins F. Against these The new arrangement consequently af- 110

when the machine is operated but when the 80 plug is rotated through an angle of 90° the J (see Fig. 2) and then forms a stop which limits the movement of this member.

The foot  $b^1$  of the operator key B serves 85 when the key is depressed likewise as a stop Fig. 3 is a horizontal section through for an adjusting member K on the till, and a shoulder  $b^2$  on the key is provided for the Fig. 4 is a section on the line 4-4 of purpose of cooperating with a slide M, in order to release the till and switch on the 90

45 ing  $a^1$  running parallel with the longitu- cam  $c^4$  of the plug C is set in the position in 100 dinal axis of the key B. The plug is held which it acts as a stop so that, in addition stop for a gear member (K) provided say The tumbler of the safety lock is con- for the adjustment of the adding mecha-50 structed as in a Yale lock. The plug C has nism used by the particular operator, a sec- 105

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fords the advantage that by the depression tatable in unlocked position, said locking of a key the adjustment of two gear mem- member being formed with a helical groove bers which become operative in different pement and engaging said groove for rotatriods of the operation of the till, is pre-5 pared. The turning back of the plug  $\tilde{C}$  of ment of said sliding element. the safety lock into the original position 3. The combination with a sliding eletakes place positively on the return movement of a rotary locking member releasament of the key B, which is effected by the ble upon the insertion of a key, means concancelling of the keys. necting said sliding element to said rotary 30 Claims: 10

and an arm connected to said sliding ele-

ing said locking member upon a displace- 25

1. The combination with a sliding ele-locking member for rotating the same upon ment of a locking device comprising a key a displacement of the sliding element and a controlled locking member rotatable in un- stop carried by said locking member, said locked position and means connecting said stop being moved to operative position when 15 locking member to said sliding member said locking member is rotated. The foregoing specification signed at Eswhereby said locking member is rotated sen, Germany, this 29th day of September, upon a displacement of said sliding mem-1921.ber.

2. The combination with a sliding ele-20 ment of a key controlled locking member ro-

EDUARD OSTMEYER.

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