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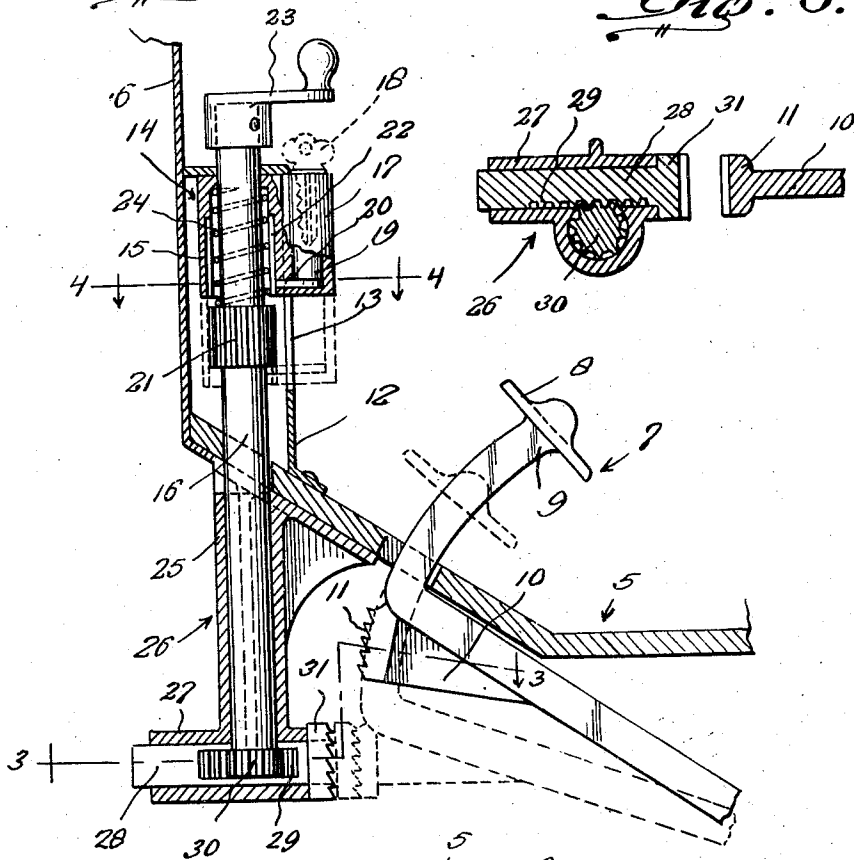
P. PERRELLY

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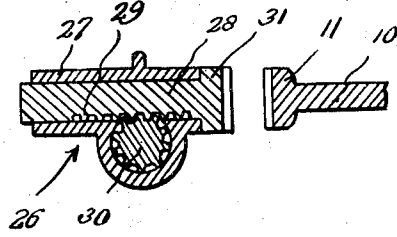
PEDAL LOCKING DEVICE

Filed Nov. 20, 1928

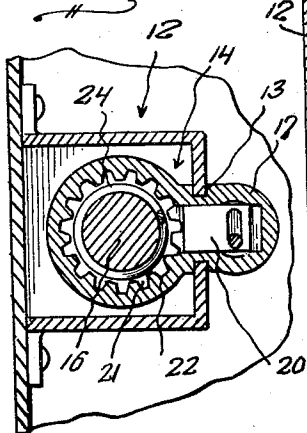
*Fig. 1.*



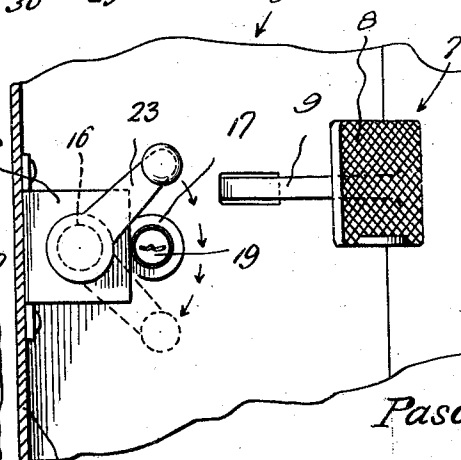
*Fig. 3.*



*Fig. 4.*



*Fig. 2.*



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## UNITED STATES PATENT OFFICE

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## PEDAL-LOCKING DEVICE

Application filed November 20, 1928. Serial No. 320,618.

This invention relates to an improved locking device for automobile brake and clutch pedals and it has more particular reference to that species of invention utilized as safety appliances to lock a clutch pedal in inoperative position or a brake pedal in brake-applying position when the automobile is left unoccupied in order to guard against and minimize theft and operation of the vehicle by unauthorized persons.

I am aware that numerous endeavors have been made in this art to perfect and provide different types of devices for this purpose, and it is therefore my principal object to generally improve upon known patented and marketed devices by providing one which is distinguished by a novel organization of parts cooperating in an efficient and dependable manner for producing a complete structure which will better fulfill the requirements of an invention of this class.

The specific structural parts and their relative arrangement and association will become more readily apparent from the following description and drawing.

In the drawing:

Figure 1 is a view in elevation and section showing a retaining device constructed in accordance with the present invention and indicating its relationship to the floor board and pedal structure.

Figure 2 is a top plan view of the structure seen in Figure 1.

Figures 3 and 4 are horizontal fragmentary sectional views taken approximately upon the planes of the lines 3—3 and 4—4 of Figure 1.

In the drawing the reference character 5 designates the floor, 6 the dash board and 7 the pedal. The pedal includes a foot piece 8 and a curved shank 9 which, in accordance with the present invention, is equipped with an integral attachment. This attachment may comprise a web 10 having a toothed head 11 disposed in alinement with the arcuate shank 9.

Mounted on the floor adjacent the dash board is a vertically elongated housing 12 having a slot 13 formed in one side. This housing is designed to accommodate a slid-

able lock casing 14. This casing includes a sleeve-like portion 15 surrounding an oscillatory shaft 16, and a barrel lock 17 located on the exterior of the housing and constructed to accommodate a locking key 18. This barrel lock is provided with a suitable barrel 19 having a bolt 20. It will be noted that the shaft 16 carries a retention gear 21 confined in the housing and that the portion 15 of the lock casing is formed with elongated gear teeth 22 adapted to mesh with the teeth on the gear 21. Moreover the bolt 20 is adapted to be engaged beneath the gear 21 as shown in dotted lines in Figure 1, after the lock casing is slid down in the slot 13. On the upper end of the shaft is an operating crank handle 23 and surrounding the shaft and located in the sleeve portion 15 is a lifting spring 24 which normally holds the lock structure up in the full line position shown in Figure 1 in which position it does not interfere with the gear 21 or the rotation of the shaft 16.

A portion of the shaft extends down through and beyond an opening in the floor where it is confined in a vertical tubular portion 25 of a special casting 26. This casting is hung from the under side of the floor and at its bottom terminates in a right angular tubular guide 27 which serves to accommodate a retaining slide 28. This slide is formed on one side with rack teeth 29 with which a pinion 30 on the shaft meshes. The slide 28 is provided with a toothed head 31 cooperable with the teeth 11 on the aforesaid pedal attachment or head.

With this arrangement it is obvious that when the pedal is depressed to the dotted line position as shown in Figure 1, this brings the head 11 opposite the head 31. Consequently when the slide 28 is actuated the teeth of the two heads come together to hold the pedal down in this inoperative state. It is quite evident that in order to actuate the slide all that is necessary is to oscillate the hand crank 23 in the direction of the arrows shown in Figure 2. To complete the operation, the lock casing 14 is slid down in the housing 12 where the sleeve gear 15 cooperates with the gear 21 to prevent retrograde rotation or

oscillation of the shaft 16. To hold the casing down against the tension of the spring, the key controlled locking barrel 19 is actuated to in turn actuate the bolt 20, thus engaging the keeper underneath the gear 21.

A careful consideration of the foregoing description in conjunction with the drawing will doubtless permit the reader to obtain a clear understanding of the construction, operation and advantages of the invention. Therefore, a more lengthy description is regarded unessential.

Minor changes in shape, size and rearrangement of parts coming within the field of invention claimed may be resorted to in actual practice if desired.

I claim:

1. In a structure of the class described, in combination, a depressible foot pedal, a web formed integral with the foot pedal and including a toothed head, a casting constructed to provide a tubular bearing and a tubular slide casing, a slide in said casing, said slide having a rack formed thereon and being equipped at one end with a toothed head for cooperation with the first-named head, a rotary shaft in said tubular bearing including a pinion in mesh with said rack, and manually actuated locking means for said shaft.

2. In a structure of the class described, in combination, a depressible foot pedal, retaining means carried thereby, and an associated retaining device for said retaining means comprising an oscillatory shaft, an operating handle therefor, a gear on said shaft, a housing embracing a portion of the shaft and enclosing said gear, a gear sleeve on said shaft cooperable with said gear, and key-controlled locking means carried by said sleeve.

3. In a structure of the class described, in combination, a toothed equipped pedal having a seat portion, a toothed equipped slide movable toward and from the seat on said pedal, and operating means for said slide comprising an oscillatory shaft, a gear on the intermediate portion of the shaft, an operating handle on the upper end of the shaft, a housing embracing the shaft and enclosing the gear, a casting slidable in said housing and including a sleeve gear slidable on the shaft and cooperable with said first-named gear, a return spring embracing the shaft and cooperable with the casing for normally holding the casting in an inactive position, said casting also including a key-controlled barrel and an associated bolt, said bolt being cooperable with said first named gear when the casting is a predetermined position in said housing.

In testimony whereof I affix my signature.  
PASCO PERRELLY.