

F. CORYELL.
 AUTOMOBILE SIGN.
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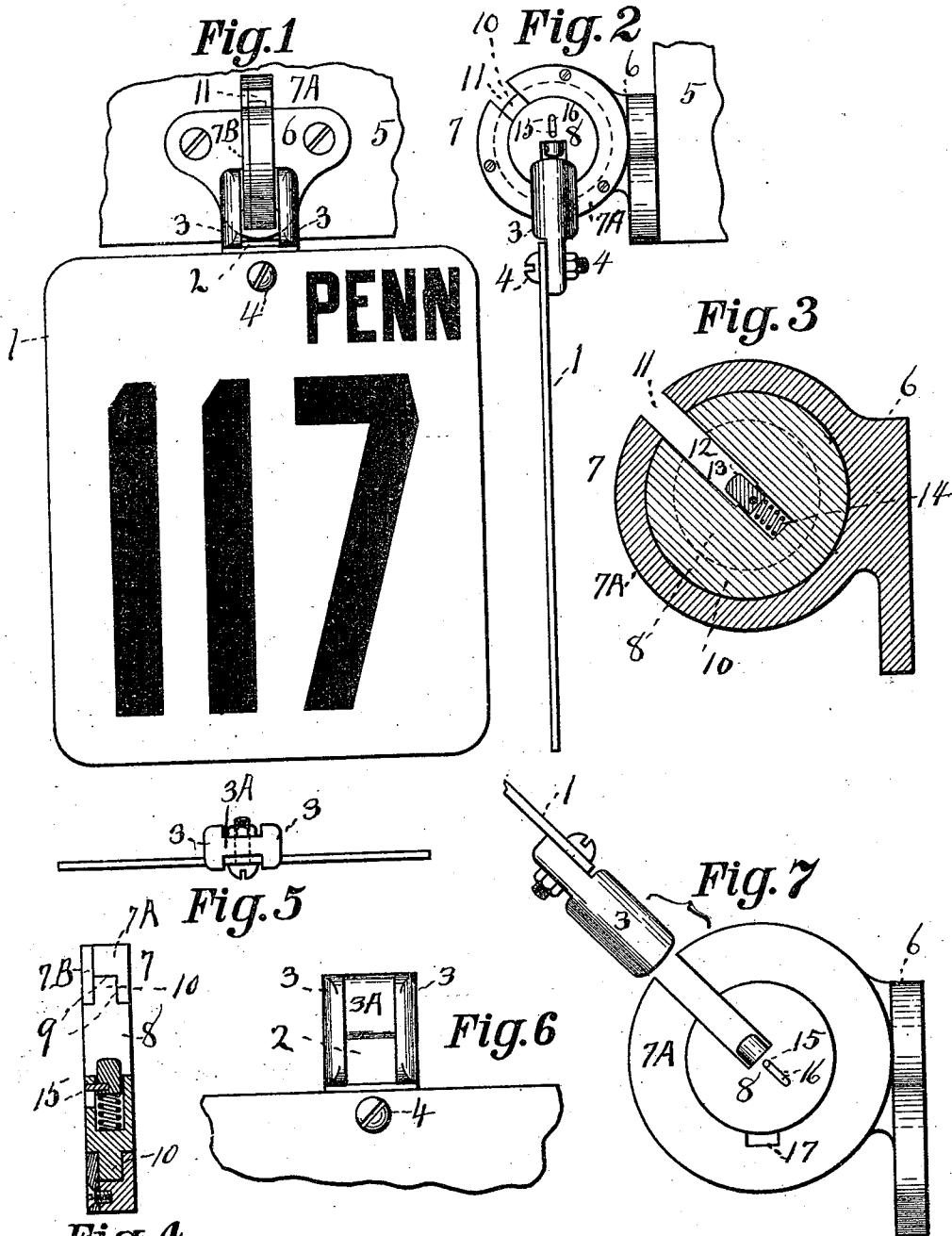


Fig. 4
 WITNESSES:
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Fig. 7
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FRANK CORYELL, OF TRENTON, NEW JERSEY.

AUTOMOBILE-SIGN.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRANK CORYELL, a citizen of the United States of America, and resident of Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Automobile-Signs, of which the following is a specification.

My invention relates to a sign for automobiles, to be applied to and detachable from the back of an automobile or other vehicle.

The object of the invention is, in the main, to save time in changing one sign for another in passing the boundary line between two States.

The general nature of the conception is a sign which need not be strapped and unstrapped for purposes of making the change, but my sign, as hereinafter set forth, consists of a sign which may be applied simply by taking one hand and placing the sign in a certain position, and then pushing it into its proper place. To remove it, only one hand is needed, for it is only necessary to jerk the sign off, occupying but a second of time. While the sign is on the automobile, it is as strongly attached as if it were strapped on in the usual manner.

The invention is illustrated in the accompanying drawing.

Figure 1 is an elevation of the device showing a fragment of the automobile to which it is attached. Fig. 2 is a side elevation of what is exhibited in Fig. 1. Fig. 3, is a central section vertically through the lock. Fig. 4 is a section on the diameter of the lock. Fig. 5 is a plan of the sign to be applied to the lock. Fig. 6 is an elevation of what is seen in Fig. 5. Fig. 7 shows the sign about to be applied to the lock.

The sign 1, has a hole 2, at its upper portion, the hole being located, specifically stated, in an extension 3 of the sign 1. This extension is fastened by a screw 4, to the sign.

5 represents a part of a vehicle, while 6 shows a bracket attached thereto. To the bracket 6 is fastened a circular bearing 7 carrying a disk 8, which is free to rotate. The bearing is composed of two parts, 7^A, and 7^B. The part 7^B is a flat ring screwed to the part 7^A, which latter is a ring also, having a circular recess shown in the view in Fig. 4 at 7. The disk 8 has a peripheral tongue 10, which fits into the recess at 9,

and is held in place by the disk 7^B, sufficiently loose to permit the rotation of the disk 8. There is a notch 11 forming an opening on one side of the rings 7^A and 7^B, and there is a similar notch 12 extending from the edge to the center of the disk 8. The disk 8 may be rotated until the two notches 11 and 12 form one continuous notch, as illustrated in Fig. 3. This composite notch, formed of the notches 11 and 12, is just large enough to receive the extension 3, which is shown ready to be inserted, in Fig. 7. At the bottom of the notch 12, is a button 13, located in a hole in the disk 8, and there is a spring 14, in said hole for retracting the button 13, when it has been pushed into said hole. A pin 15 prevents the button from falling out. The pin is carried by the button 13 and extends through a slot 16, in the disk 8. The detail of the extension are the two bars 3 connected by a cross piece 3^A. The cross piece 3^A is just large enough to be pushed into the composite slot made up of the slots or notches 11 and 12, while the dimension of the cross piece in the direction of the diameter of the disk 8, is small enough to turn with said disk without hindrance by the rings 7^A and 7^B.

17 represents a notch on the inner periphery of the ring 7^A, for receiving the cross piece 3^A while the sign is pointing downward. The button, by means of the spring 14, pushes the cross piece into the notch 17, and therefore the sign is locked in its normal position, and cannot be unlocked except by turning the sign upward so that the notches 11 and 12, register with each other.

The number 117 and the abbreviation "Penn" on the sign are representative of the number and name of a State usually applied to automobile signs.

The operation of the device consists simply in pushing the cross piece 3^A into the notches 11 and 12, with considerable force, so as to depress the button 13, and then the sign is rotated downward, whereby the cross piece turns with the disk 8, while escaping any hindrance from the rings 7^A and 7^B. When the sign reaches a downward vertical position, the button 13 automatically pushes the cross piece 3^A into the notch 17, whereby the sign becomes effectively locked to the automobile in its hanging condition; and yet the sign is easily removed by simply turning the same upward until the notches 11

and 12 register with each other, when the sign may be pulled out, and another inserted, as is the case on reaching the boundary line between two States. Before turning the sign upward for removal, it should be pushed straight up so as to press the button out of the way, and permit the cross piece to turn between the inner periphery of the bearing and the bottom of the disk 8. The cross piece for this reason should be slightly less in size than the depth of the notch 12 in the disk 8. The hole 2 should be slightly larger than the radial thickness of the rings 7^A and 7^B.

I claim as my invention:—

1. The combination of a sign, bars extending therefrom, a cross piece connecting said bars, rings having a notch, a disk having a notch and rotary in said rings, a button in the bottom of the notch of said disk, a spring for said button, the two notches being adapted to register with each other when the disk is turned to a certain angle, and said cross piece being of a size to permit it to enter said notches, and to turn with said disk within said rings.

2. The combination of a sign, a bracket, a slotted bearing on said bracket, a slotted disk in said bearing, and rotary therein, a cross piece 3^A carried by said sign, the slots in said bearing and said disk registering with each other in a certain position of said disk, said

slots being for receiving said cross piece, a resiliently acting button in the path of said cross piece, and said bearing having another slot 17 for receiving said cross piece, and locking the same from rotating by the action of the button pressing the cross piece in said slot 17 while the said sign is hanging in its normal position, and a pin passing through a slot in the disk and fastened to said button, preventing the latter from falling away from the disk.

3. The combination of a bearing consisting of two rings, one of them having a recess, a disk located and rotary between said rings, an annular tongue on said disk and located in said recess, both of the rings and also the said disk having notches therein for registering with each other at a certain single position of said disk, a spring pressed button at the bottom of the notch which is in said disk, a sign, bars extending therefrom, a cross piece connecting said bars, and fitting in the notch of said disk, but escaping the bearing, said spring pressed button tending to push said cross piece from the notch in said disk, and another notch 17 in said bearing, for receiving said cross piece while the sign points downward.

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Witnesses:

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