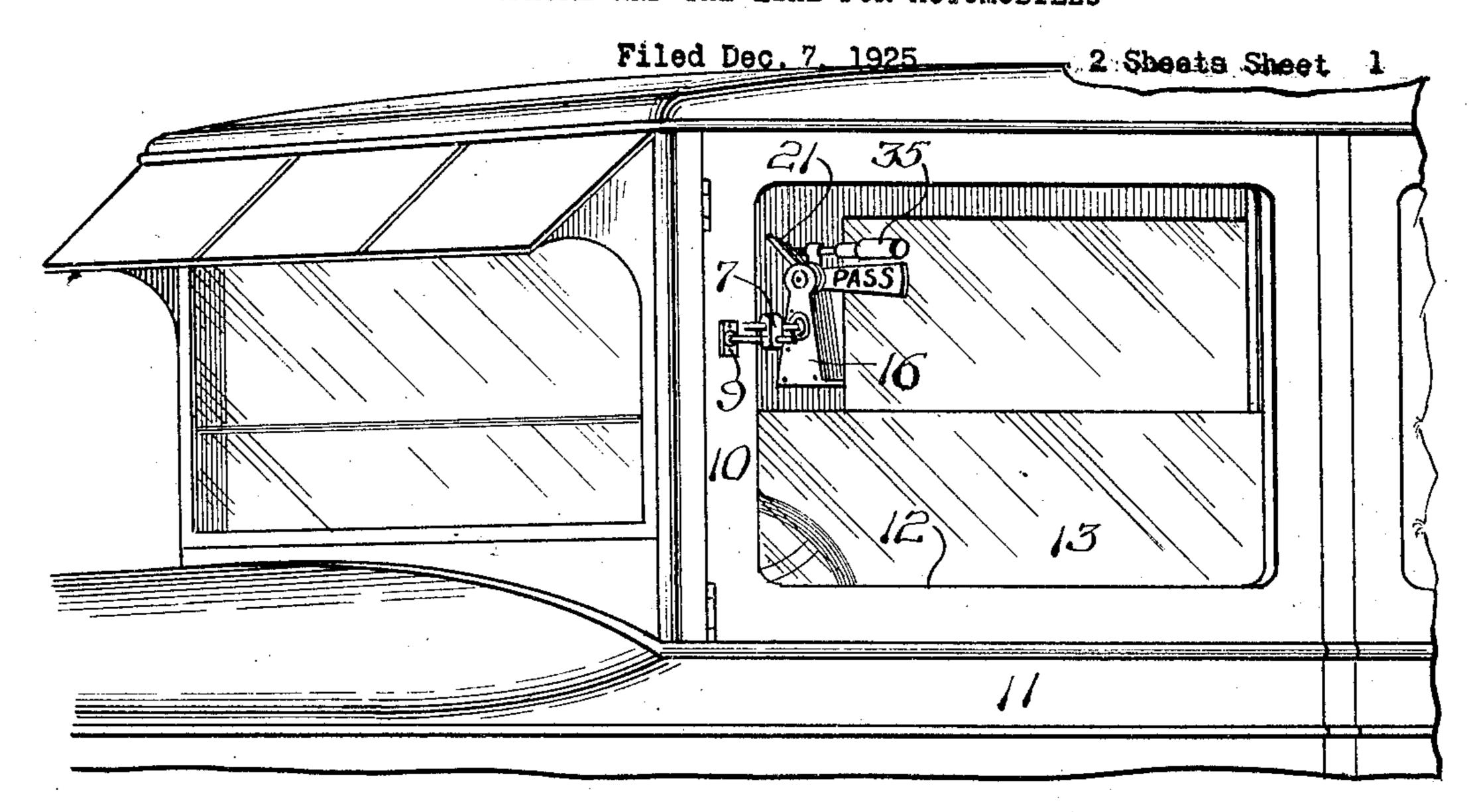
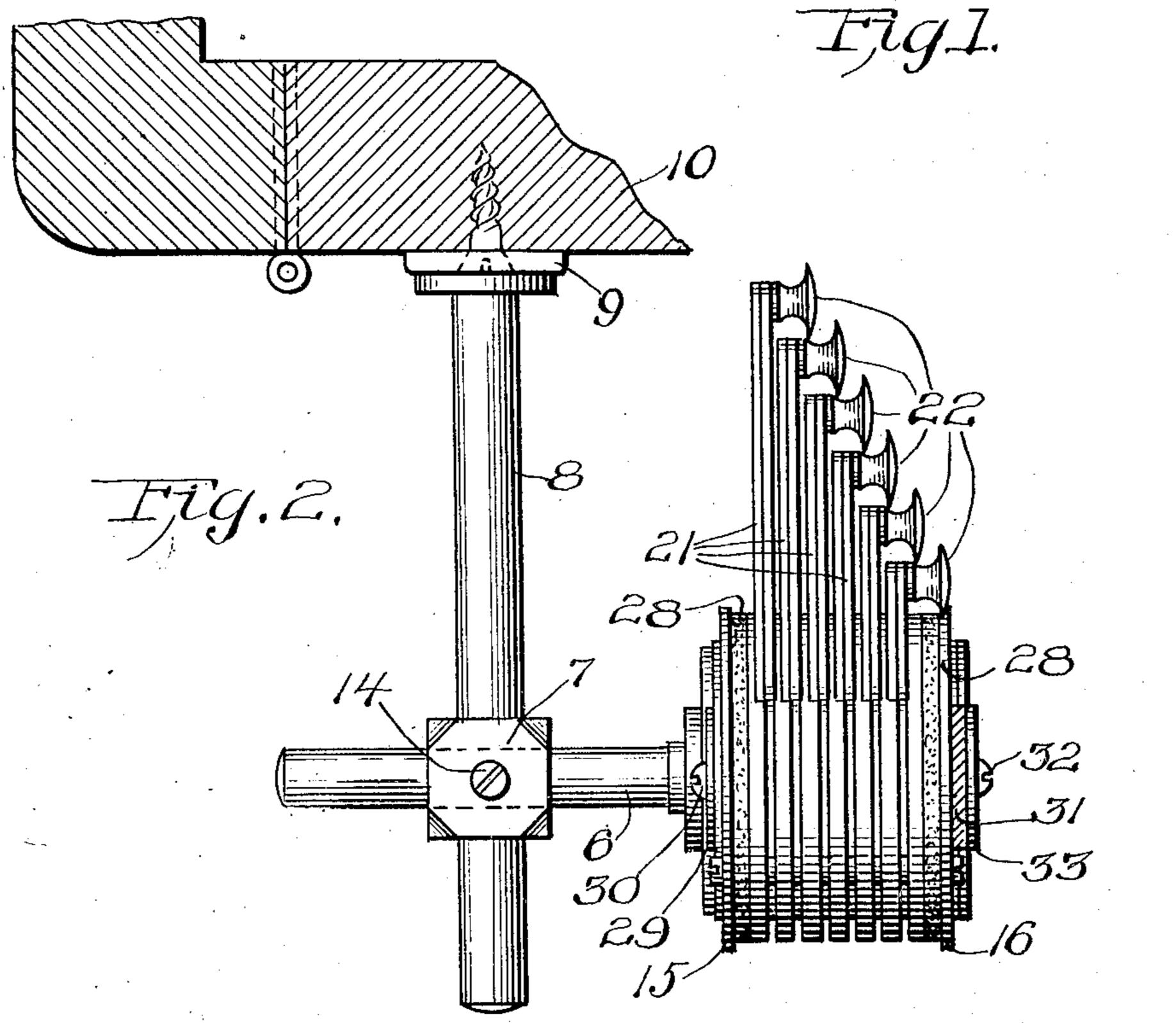
J. BEEBY

SEMAPHORE AND THE LIKE FOR AUTOMOBILES



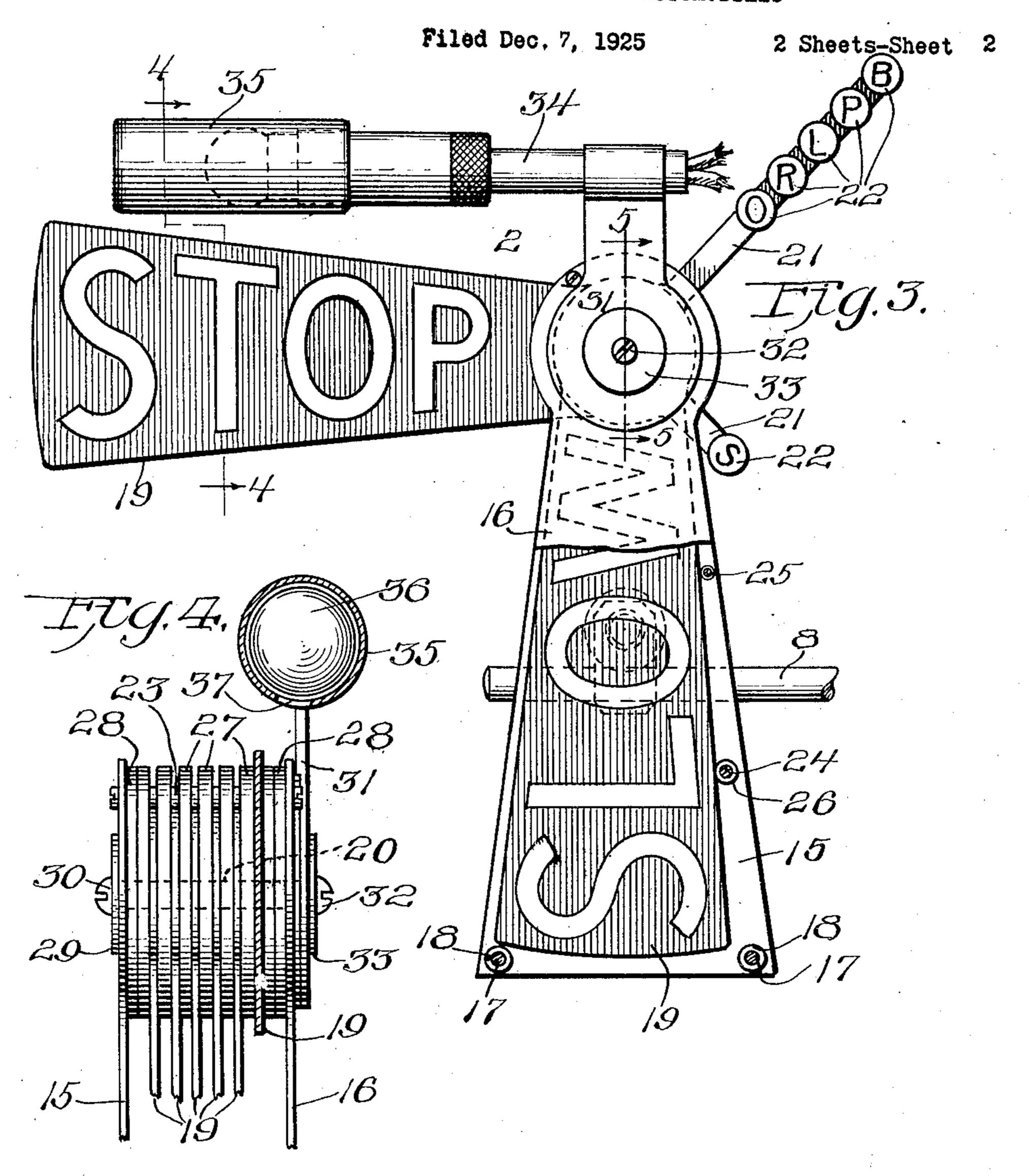


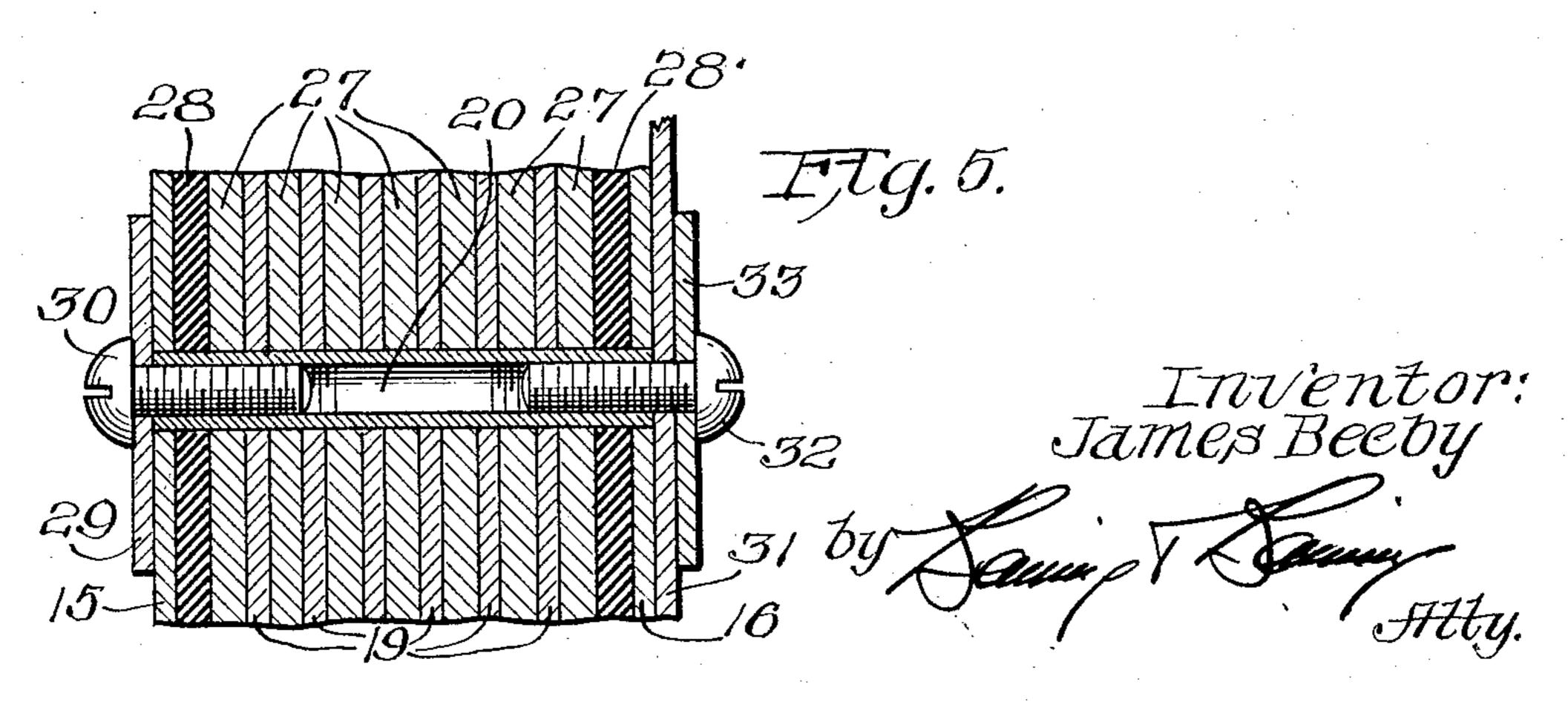
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## SEMAPHORE AND THE LIKE FOR AUTOMOBILES





## UNITED STATES PATENT OFFICE.

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SEMAPHORE AND THE LIKE FOR AUTOMOBILES.

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This invention has to do with improvements in semaphores and the like for auto- Fig. 3, looking in the direction of the arrows, mobiles. It has to do particularly with im-but on enlarged scale. provements in devices for giving a signal Referring first to Figs. 1 and 2, the sema- 60 aphore is mounted. For this purpose, the

10 The main object of the invention is to will operate in a very satisfactory manner, 15 and present a very attractive appearance

when in place on an automobile.

A further object of the invention is to provide a device which is so arranged that whenever any particular signal blade is 20 raised, it will remain in the raised position until purposely lowered by the driver. In 6 and 8 in any convenient manner as by this connection, it is a further object to make means of set screws 14. provision for exerting the necessary friction for the different blades to ensure the foregoing result without, however, causing the parts to bind unnecessarily.

Another feature of the invention relates to the provision of means for satisfactorily illuminating the blades when they are raised 30 so as to give the desired operation for night

service.

A further object of the invention is to provide a device which can be very easily adapted to the body of the vehicle or to the frame 35 of the door or window and at very little expense.

Other objects and uses of the invention will appear from a detailed description of the same, which consists in the features of 40 construction and combinations of parts hereinafter described and claimed.

In the drawings:

Figure 1 shows a perspective view of the upper front corner of an automobile body 45 having applied thereto a semaphore embodying the features of the present invention;

Fig. 2 shows a plan view corresponding

to Fig. 1;

Fig. 3 shows a side view of the semaphore on enlarged scale, the "stop" blade being raised, and a portion of the side plate of the device being broken away so as to reveal the interior construction;

Fig. 4 shows a cross section on the line 55 4—4 of Fig. 3, looking in the direction of

the arrows: and

Fig. 5 shows a section on the line 5—5 of

5 to another person as to the prospective move- phore as a whole may be supported in any ments of the automobile on which the sem- convenient manner. For this purpose, it is preferably provided with a stud 6 projectdevice is so arranged as to give a signal such ing from one of its side plates and through as "start", "stop", "right", "left" "pass", etc. a bracket block 7. This bracket block in turn 65 is mounted upon another stud 8 which proprovide a very simple device, one which can jects from a bracket 9 which is secured to the be very cheaply and easily manufactured frame 10 of the vehicle. In the particular from few parts, can be cheaply assembled, construction illustrated, the bracket 9 is secured to the front post of the door 11 of 70 the vehicle, so that the semaphore also occupies the proper position adjacent to the window opening 12. Upon lowering the window pane 13 the semaphore can be conveniently reached and manipulated. The 75 adjustment block 7 is secured to the studs

> The semaphore proper comprises a pair of vertical side plates 15 and 16. These are 80 joined together in spaced relationship by a series of through bolts or pins 17 which draw the side plates 15 and 16 towards each other, sleeves 18 on said through bolts serving to retain the side plates in the desired 85

spaced relationship.

The semaphore includes a number of blades 19 which are of the general shape shown in Fig. 3. These blades are pivoted on a through pin or sleeve 20 which reaches 90 between the upper portions of the side plates 15 and 16. The blades are of such shape and size that when lowered into the vertical position they pass completely between the side plates between which they are hidden and 95 protected when not in service. This fact is clearly indicated in Fig. 3.

The various blades 19 are provided with individual operating fingers 21 which extend from the opposite side of the pivotal shaft 100 20, so that said operating fingers are brought to a relatively close position to the driver's seat within the automobile. As the various blades are lowered into the vertical position, the fingers 21 assume a position extending 105 upwardly at an angle of approximately 45°, and as each finger is depressed into the lowermost position its blade is raised into the horizontal position, as shown in Fig. 3.

Each of the fingers 21 is preferably pro- 110 vided with an end button 22 projecting at right angles to the face of the finger and by

means of which the finger is easily manipu- arrangement the compression exerted by lated. The various fingers are preferably of tightening up the screws cannot cause an successively increasing lengths, so that when excessive amount of compression of the rubthe blades are all lowered, the fingers come ber blocks, since the parts cannot be tight-5 into telescoping alignment, as clearly indi- ened up beyond the amount limited by con- 70 cated in Figs. 2 and 3. Preferably, each tact of the washers with the ends of the finger has marked on its exposed face a suit- sleeve 20. This will make it certain that able symbol indicating the signal which is when the parts are definitely tightened up,

the side plates 15 and 16. This pin 23 also with wear.

15 plained.

25 in spaced relationship with respect to each illumination down against the face of the other, so that they will not interfere with blade which is raised, as shown in Fig. 3. each other as they are individually operated. While I have herein shown and described 30 would cause the raising of one blade to be to limit myself to the same, except as I may communicated to the adjacent blades. For do so in the claims. the above purposes, I have provided the I claim: sleeves or washers 27 on the pivot pin 20, 1. As a new article of manufacture, a semsaid washers being placed between the suc- aphore for the purpose specified including 100 cessive blades. These washers are of some- in combination a pair of vertical side plates,

conjunction with the pivot ends of the vari- pivot sleeve intermediate between the pivotal 115 55 the side plates 15 and 16 and the lowermost swing of the arms and to retain the disks 120

of the washers 27.

a washer 29 is placed against the end of the and the proximate arm, substantially as de-60 sleeve 20 and also against the face of the scribed. plate 15, said washer being held in place by a tap screw 30 which threads onto the end aphore for the purpose specified including of the pivot sleeve 20. A similar construct in combination a pair of vertical side plates, tion may be used at the other end if desired. means for securing said side plates in spaced

contained on the corresponding blade. the washers and blades will be brought into In order to limit the upthrow of the a definite fixed amount of frictional con- 75 blades, I have provided a cross pin 23 which tact, and will avoid either a binding action extends across between the upper portions of due to excessive friction or a loosening up

serves another function presently to be ex- In the particular construction illustrated, another bracket 31 is placed against the face 80 In order to limit the downthrow of the of the plate 16, being held in place thereon blades I provide one or more cross pins 24 by the screw 32 which reaches through the and 25 extending between the edge portions washer 33, and through said bracket into of the plates 15 and 16; and these cross pins the sleeve 20. This bracket 31, when used. 20 24 and 25 are preferably provided with is for the support of the stem 34 of a small 85 sleeves of rubber or other resilient material lamp shade 35, within which lamp shade 26, so that when the blades are lowered any is placed the electric bulb 36. The lower unpleasant noise will be avoided.

portion of the tubular lamp shade 35 is It is desired to retain the various blades slotted, as shown at 37, so as to direct the

It is also desired to avoid any cross inter- only a single embodiment of the features of ference between the various blades such as my present invention, still I do not intend

what larger diameter than the blades them- a series of pins extending between the botselves, as clearly indicated in Fig. 4, and the tom of the side plates and between the side through pin 23, already referred to, extends plates along one edge thereof serving to through the upper edge portions of the draw the side plates towards each other, washers as well as through the side plates 15 means for limiting the approaching move- 105 and 16. Consequently, said washers are ef- ment of the side plates towards each other, fectively retained against rotation, and in a pivot sleeve extending between the upper this way the rotation of one blade is not portions of the side plates, means for drawcommunicated to the adjacent blades. ing the side plates towards each other at the In order to place the blades and washers position of said pivot sleeve and for limiting 110 under such an amount of compression as the approaching movement of the side plates will make sure that any blade will remain in towards each other at such location, a series the raised position until purposely lowered, of semaphore arms pivotally mounted on said I have provided spring means or the like in pivot sleeve, a series of disks located on said out blades and washers. In the particular ends of the arms, a cross pin extending beconstruction illustrated, this takes the form tween the side plates and through the disks of a pair of blocks of rubber or the like 28 at a position above the pivotal ends of the which are set between the upper portions of semaphore arms serving to limit the upagainst rotation for the purpose specified, The side plates themselves are perforated and a rubber block located on the pivot sleeve to receive the pivot sleeve 20. At one side intermediate between each of the side plates

2. As a new article of manufacture, a sem-130 It will be noted that with this sort of an relationship with respect to each other, a 130 1,682,951

pivot member extending between the upper means for retaining the same in spaced re-5 pivot member intermediate between the piv- arms pivotally mounted on said pivot mem-10 swing of the arms and to retain the disks mediate between the pivotal ends of the 15 tially as described.

aphore for the purpose specified including scribed. in combination a pair of vertical side plates,

portions of the side plates, a series of sema- lationship with respect to each other, a pivot 20 phore arms pivotally mounted on said pivot member extending between the upper pormember, a series of disks located on said tions of the side plates, a series of semaphore otal ends of the arms, a cross pin extend- ber and normally depending into a vertical ing between the side plates and through the position and adapted to be raised into a hori- 25 disks at a position above the pivotal ends of zontal position to give an indication, a the semaphore arms serving to limit the up series of stationary members located interagainst rotation for the purpose specified, arms, a compressible block located on the and a compressible block located on the pivot pivot member intermediate between each of 30 member intermediate between each of the the side plates and the proximate arm, and side plates and the proximate arm, substan- a horizontal lamp above the indicating position of the semaphore arms and lying par-3. As a new article of manufacture, a sem- allel to said position, substantially as de-

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