Oct. 1, 1929. E. C. RUMSEY 1,730,335

SIGNAL

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FIG. 1

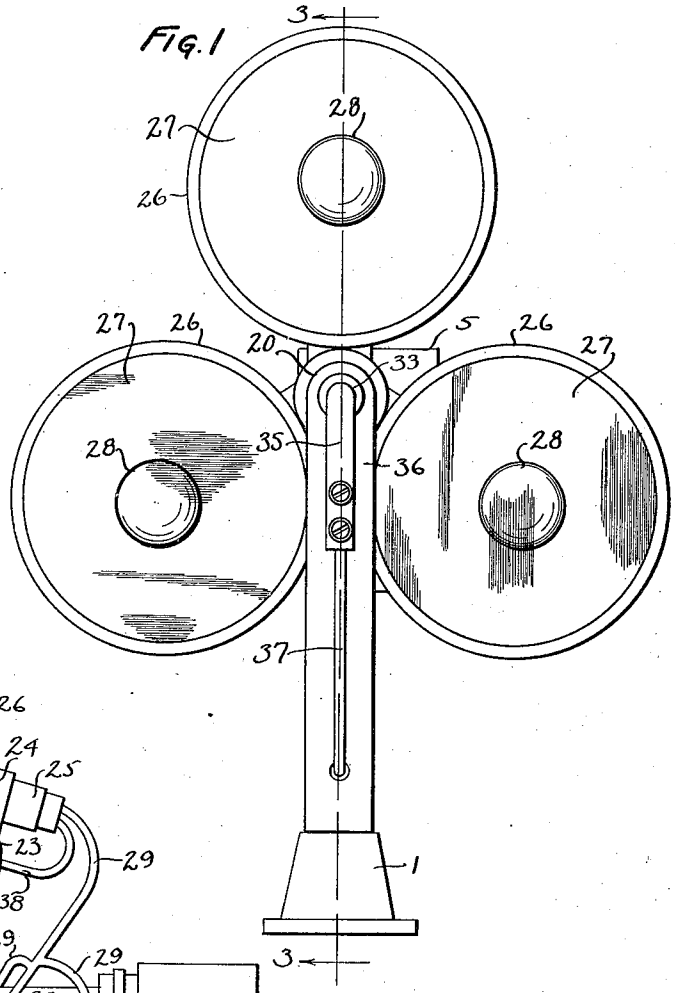
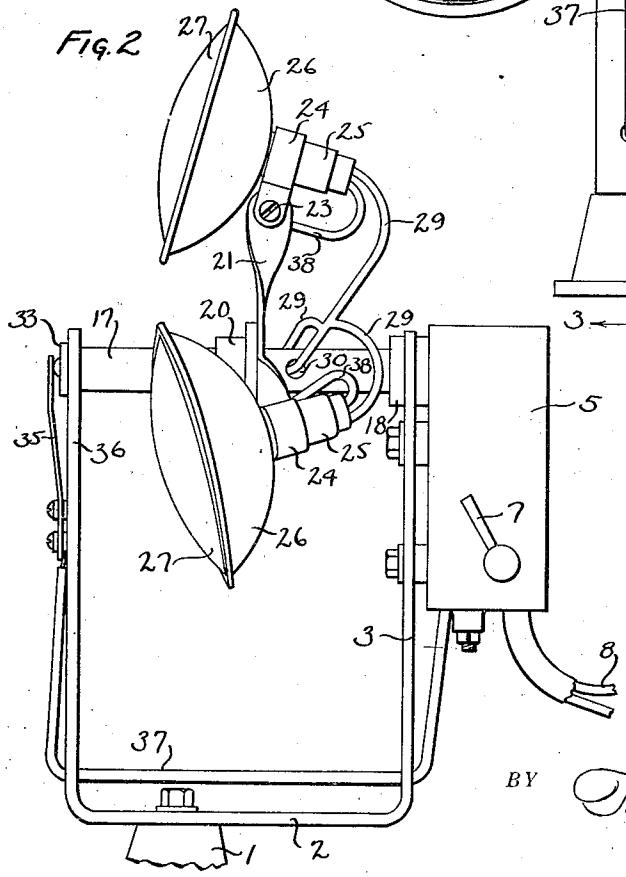


FIG. 2



INVENTOR
Edward C. Rumsey
BY Taulmin & Taulmin,
ATTORNEYS.

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Fig. 3

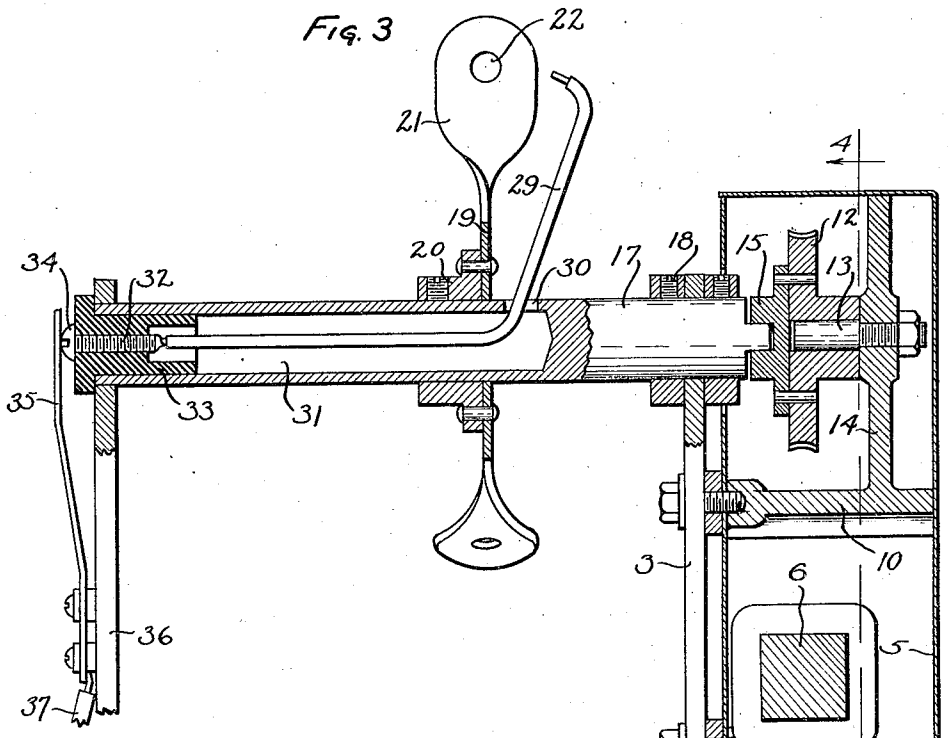
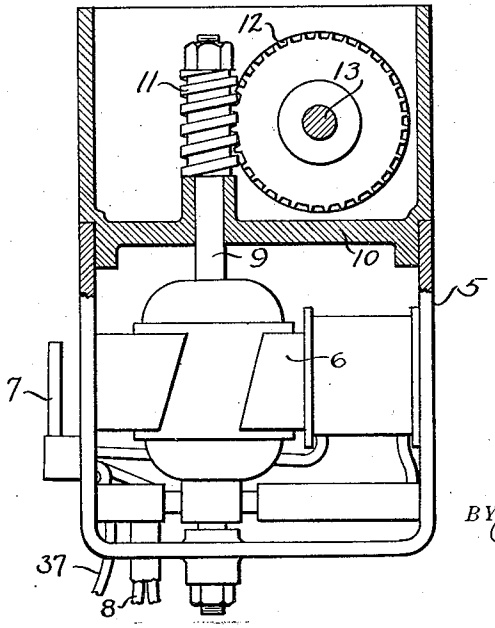


Fig. 4



INVENTOR
Edward C. Rumsey,
BY Taulmin & Taulmin
ATTORNEYS

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SIGNAL

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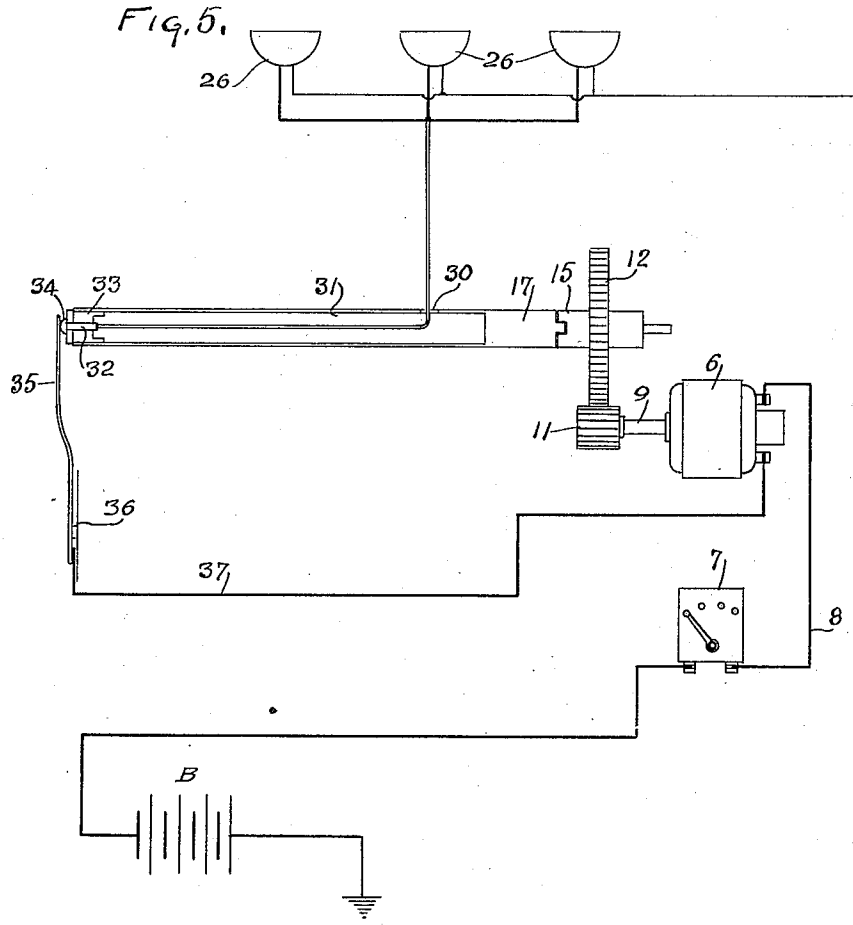
Fig. 5.



Inventor
EDWARD C. RUMSEY,
By Toulmin & Toulmin,
Attorneys.

Patented Oct. 1, 1929 1,730,335

UNITED STATES PATENT OFFICE

EDWARD C. RUMSEY, OF DETROIT, MICHIGAN, ASSIGNOR TO BUCKEYE IRON & BRASS WORKS, OF DAYTON, OHIO, A CORPORATION OF OHIO

SIGNAL

Application filed March 12, 1927. Serial No. 174,955.

My invention relates to signals.

It is the object of my invention to provide a light signal which because of its peculiar character will immediately attract attention to itself and act as a warning signal for use on public vehicles such as fire engines, ambulances, police patrols and other public and emergency vehicles.

It is the object of my invention to provide a signal which will be distinguished by reason of its peculiar rays, both as to their position, movement, and color or combination of colors.

It is a further object to provide a signal which will project its rays and beams in a plurality of directions and to so move the lamp or lamps which project these rays or beams that they will attract the attention of pedestrians and motorists, thereby informing them of the approach of an emergency vehicle. The light itself will travel on or over the sidewalks and sides of buildings and thereby attract the attention of those persons who might obstruct the travel of the emergency car and who will by the signal be warned of the approach of the emergency vehicle.

It will be realized that my invention is adaptable for signaling purposes of various characters and is useful not only on land vehicles but on vessels such as police boats and the like, or is useful on aircraft or ground installations for signaling to aircraft.

Referring to the drawings,

Fig. 1 is a front elevation of the signal;

Fig. 2 is a side elevation thereof;

Fig. 3 is a section on the line 3—3 of Fig. 1 with the searchlights removed;

Fig. 4 is a section on the line 4—4 of Fig. 3.

Fig. 5 is a diagrammatic view illustrating the wiring connections of the lights, illustrating the complete circuits.

Referring to the drawings, 1 is a standard or support which may be mounted upon the running board of a fire engine on a pole or any other equipment which will give the signal sufficient elevation. It will be understood that the signal can be mounted anywhere, but it is desired to have it at the maximum elevation in order to project the signal light beams over the tops of private vehicles in front of the fast moving public vehicle. This standard 1 has bolted thereto a U frame 2, the rear arm of which 3 supports a gear box 5 containing gearing and a motor. The motor is designated 6 and is controlled by a switch 7 which is connected in the circuit of the wires 8. The armature shaft 9 of the motor is journaled in a cross frame member 10 and carries on the end thereof a worm 11 meshing with a worm gear 12. This worm gear is mounted upon a single shaft 13 journaled in the frame plate 14. The gear 12 carries a knuckle 15 providing a universal joint 16 with the signal driven shaft 17 which is rotatably supported in the upper end of the frame member 3. Collars 18 on this shaft position the shaft 17 laterally with respect to the upright 3. This shaft has mounted thereon a plurality of arms 19 supported by a collar 20 on the shaft. These arms have light supporting ends 21 angularly disposed to the general plane of the arms 19. The light supporting ends 21 are provided with eyes 22 into which are mounted bolts 23 for attaching thereto clips 24 in which are slidably mounted the shaft 25 of a spotlight 26 having a glass 27 and a bulb 28. Either the glass or bulb, or both, may be colored if desired in order to provide a combination of colors with the remainder of the lights. I have shown one of the spotlights adapted for throwing a white beam, one of them for throwing a blue beam and the last one for throwing a red beam.

It will be noted that these lights are preferably tilted at an angle to one another and at an acute angle to the major axis of the shaft 17. The lights are connected to the wires 29 which enter an aperture 30 of the shaft 17 into the hollow interior 31 of this shaft where they terminate at a terminal stud 32 mounted in an insulated sleeve 33. The head of this stud 34 engages with the contact finger 35 which is connected to the other side of the circuit. The shaft 17 is rotatably mounted in the upright 36 of the frame generally designated 2. Finger 35 is connected with the wire 37 back to the motor 6. The lamps are grounded by the wires 38.

The exact details of the arrangement of the wiring are not fundamental. Any number of lights may be used and the details of construction may be varied without departing from the principle of my invention.

The motor 6 which drives the signal has one terminal connected to switch 36 by wire 37 and its other terminal is connected by wire 8 to rheostat 7 and to a source of power such as battery B. The battery has a ground connection as indicated in Fig. 5.

It will be understood that I desire to comprehend within my invention such modifications as may be necessary to adapt it to varying conditions and uses.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a signal apparatus for emergency vehicles, the combination of a U shaped supporting bracket, a rotating driven shaft having one of its ends supported by one of the legs of said bracket and its other end supported by the other leg of said bracket, signal means mounted on said shaft, a second bracket, means for detachably mounting said bracket on one of the legs of the U shaped bracket, driving means mounted on said second bracket, interengaging means between said driven shaft and said driving means permitting separation of the driving means from the driven shaft on detachment of the second bracket.

2. In a signal apparatus for emergency vehicles, the combination of a U shaped supporting bracket, a rotating driven shaft having one of its ends supported by one of the legs of said bracket and its other end supported by the other leg of said bracket, signal means mounted on said shaft, a second bracket, means for detachably mounting said bracket on one of the legs of the U shaped bracket, driving means mounted on said second bracket, interengaging means between said driven shaft and said driving means permitting separation of the driving means from the driven shaft on detachment of the second bracket, and a casing surrounding said second bracket.

3. In a signal apparatus for emergency vehicles, the combination of a U shaped supporting bracket, a rotating driven shaft having one of its ends supported by one of the legs of said bracket and its other end supported by the other leg of said bracket, signal means mounted on said shaft, a second bracket, means for detachably mounting said bracket on one of the legs of the U shaped bracket, driving means mounted on said second bracket, interengaging means between said driven shaft and said driving means permitting separation of the driving means from the driven shaft on detachment of the second bracket, said second named bracket having a vertical wall and a horizontal wall and a power drive forming part of said driving means extending through said horizontal wall.

In testimony whereof, I affix my signature.

EDWARD C. RUMSEY.