

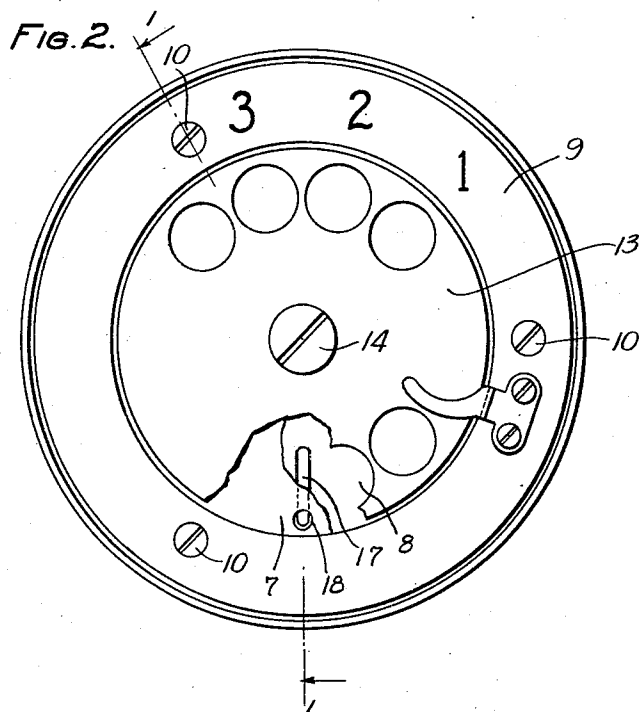
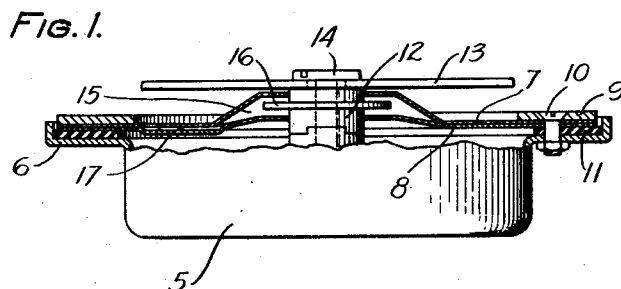
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H. W. GOFF ET AL

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IMPULSE TRANSMITTER

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IMPULSE TRANSMITTER

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This invention relates to impulse transmitters and more particularly to means for protecting the operating mechanism of such equipment.

5 Recognizing the practicability of automatic telephone systems in substantially every other branch of present day industry, it has been found desirable to equip ocean-going liners and other similar vessels of appreciable tonnage and passenger capacity with telephone service of the automatic type. Due to the fact that calling dials, associated with such systems, are in many instances, located in such parts of a vessel as to be sub-
10 jected to splashes of ocean spray, rain and the like, it is necessary, in order to maintain uninterrupted service of a satisfactory nature, that some means be provided for guarding such equipment from the effects of these
15 unavoidable conditions.

It is the object of this invention to incorporate in the structure of an impulse transmitter means for splash-proofing the operating mechanism thereof.

25 This object is attained in accordance with a feature of the invention by the provision of a plurality of cooperating saucer-like elements forming a part of the dial superstructure, which coact to prevent the ingress of
30 water to the dial mechanism.

The invention will be readily understood from the following detailed description made with reference to the accompanying drawings in which, Fig. 1 is a side elevation, partly in section, of a dial embodying the features of the invention and Fig. 2 is a plan view of the dial shown in Fig. 1. The sectional portion of Fig. 1 is taken along the line 1—1 of Fig. 2 looking in the direction
40 of the arrows.

Reference is made to Figs. 1 and 2 jointly, and like numerals indicate similar parts throughout the drawings.

45 A case or receptacle 5, which serves as a housing for the dial mechanism (not shown), is provided with a circular flange 6 which serves as a support or shelf upon which discs or saucer-like elements 7 and 8 are mounted, interposed between the annular number plate
50 and a correspondingly shaped rubber gasket

11. In order to clarify that particular part of the drawings, a screw 10 and its cooperating nut are shown as one of three such sets which are employed to secure the elements 7, 8, 9 and 11 to the flange 6 of the dial case 5. A more desirable method, however, would be to weld threaded studs to the underside of the number plate in place of the screws 10.

Each of the discs 7 and 8 is provided with a centrally located circular hole through which the hub 12 of the dial mechanism extends. A finger wheel 13 fits over a shoulder on the hub 12 and is secured thereto by the screw 14.

The discs or inverted saucer-like elements 7 and 8 are provided with skirted ends which cooperate to form a reservoir 15. The hub 12 is provided with a ledge-like flange 16 which is so located on the hub as to extend substantially midway between the skirted
75 ends of discs 7 and 8.

At one part, the lower disc 8 is grooved to form a duct 17 which serves to conduct the water that accumulates in the reservoir 15 therefrom, to the outside of the upper
80 disc 8 by way of the hole 18.

It is now apparent that any water that splashes the dial and tends to drip along the hub 12 and eventually drops into the operating mechanism within the case 5, will strike
85 the ledge-like flange 16 and then drip into the reservoir 15 whence it finds its way to the outside by way of the duct 17 and hole 18. In this manner the operating mechanism is guarded against the deteriorating effects of
90 water.

The number plate 9 is shown as an annular ring extending beyond the outer edge of the finger wheel 13. This is for the purpose of improving the visibility of the characters under poor lighting conditions which at times are present on board ship.

What is claimed is:

1. In combination with an impulse transmitting mechanism, a number plate having an opening therethrough, a receptacle for housing said mechanism and provided with a flange for mounting said number plate and a water shield interposed between said receptacle flange and said number plate and cover-
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ing the opening in said number plate for splash-proofing said mechanism.

2. In combination with an impulse transmitting mechanism, a number plate, a receptacle for housing said mechanism and provided with a flange for mounting said number plate and a water shield comprising two discs interposed between said receptacle flange and said number plate and having skirted ends to form a reservoir, said discs cooperating to form a duct to permit water accumulated in said reservoir to flow therefrom.

3. In combination with an impulse transmitting mechanism having a receptacle housing said mechanism and a hub with which certain parts of said mechanism function centrally located within said receptacle, means for splash-proofing said mechanism comprising a pair of inverted saucer-shaped discs mounted on a flange of said receptacle and having aligning holes through which said hub extends and cooperating to form a reservoir, and a flange on said hub extending between said discs within said reservoir.

4. In combination with an impulse transmitting mechanism having a receptacle housing said mechanism and a hub with which certain parts of said mechanism function centrally located within said receptacle, means for splash-proofing said mechanism comprising a pair of inverted saucer-shaped discs mounted on a flange of said receptacle and having aligning holes through which said hub extends and cooperating to form a reservoir, one of said discs having a depression to form a duct and the other of said discs having an aperture serving as an outlet for said duct, and a flange on said hub extending between said disc within said reservoir.

In witness whereof, I hereunto subscribe my name this 27th day of March, 1929.

HAROLD W. GOFF.

In witness whereof, I hereunto subscribe my name this 27th day of March, 1929.

OSCAR F. FORSBERG.

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