Feb. 2, 1926. 1,571,695

U. BELIVEAU

MOTOR HORN OPERATING MECHANISM

Filed June 15, 1925

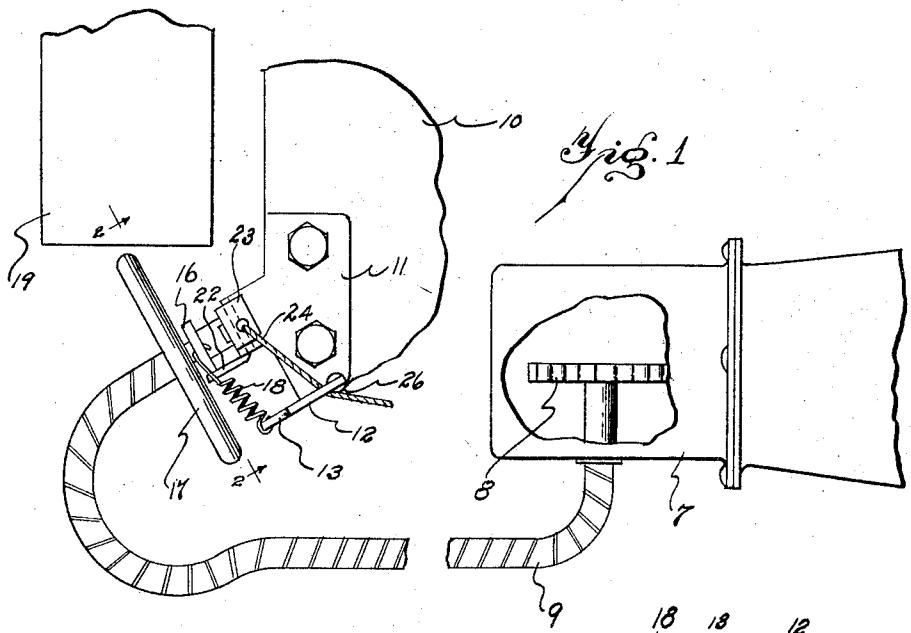


Fig. 1

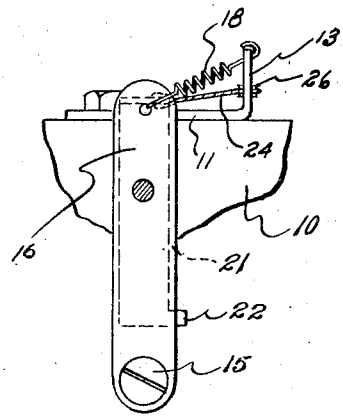


Fig. 2

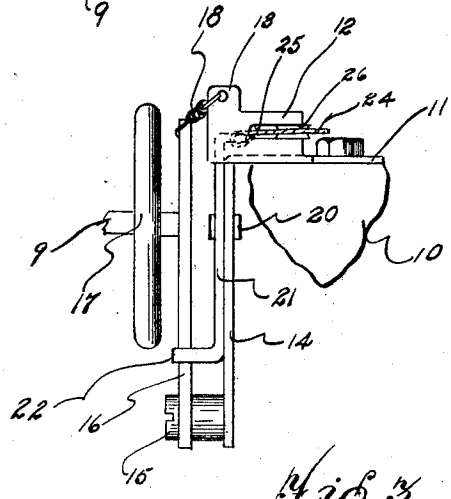


Fig. 3

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UNITED STATES PATENT OFFICE.

ULRIC BELIVEAU, OF DETROIT, MICHIGAN.

MOTOR-HORN-OPERATING MECHANISM.

Application filed June 15, 1925. Serial No. 37,181.

To all whom it may concern:

Be it known that I, ULRIC BELIVEAU, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in a Motor-Horn-Operating Mechanism, of which the following is a specification.

My invention relates to a new and useful improvement in a motor horn and particularly the mechanism adapted for operating the horn mechanism.

It is an object of the present invention, to provide mechanism which is cheaply constructed, durable and easily installed for operating the horn, so that the use of a motor or more expensive machinery is dispensed with.

Another object of the invention is the provision of a rotatable wheel, adapted for frictional engagement with the fly wheel of the engine with which used, carried by a swivelly mounted arm, and provided with mechanism for actuating the arm to move it to engaging position.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood from a reference to the accompanying drawings which form a part of this specification and in which,

Fig. 1 is a top plan view of the invention, showing the engine and horn, with which used, in fragment,

Fig. 2 is a sectional view taken on substantially line 2—2 of Fig. 1,

Fig. 3 is a side elevational view of the invention, showing a fragment of the engine with which used.

As shown in the drawings, the invention is adapted for use with a horn 7, commonly known as a Klaxon, in which a notched disc 8 is adapted for being rotated by a flexible shaft 9, for effecting an operation or sounding of the horn.

With conventional devices, the flexible shaft 9 is rotated by an electrically driven motor operated upon manipulation of specified controls. The horn, itself, forms no part of the invention, as it is of well known structure and for this reason, the detailed structure of the horn 7 is not given. Mounted upon the cylinder block 10 of the engine is a bracket having a base 11, which is securely fastened to the block 10 by bolts, screws or other suitable fastening means. Projecting upwardly from one side of the base 11 and preferably made integral therewith is a bracket 12 having the upstanding projection 13 which is provided with an eyelet. Turned to extend at right angles to the base 11 and projecting downwardly therefrom is a carrying arm 14, to the lower end of which is pivotally connected, by means of the screw 15, a supporting arm 16 upon which is rotatably mounted a wheel or disc 17, having the periphery thereof formed from an efficient friction material, such as, rubber, fibre or the like. Connected at one end in the eyelet formed in the upstanding portion is a spiral spring 18, the opposite end of which is connected to the supporting arm 16, the spring 18 normally tending to maintain the disc 17 in inoperative position. The carrying arm 14 is mounted on the block 10 in such a position that, when the disc 17 is swung on its pivot 15, its periphery may be brought into engagement with the periphery of the fly wheel 19 of the motor with which used. Pivotally mounted, intermediate its ends, to the carrying arm 14, by means of a suitable rivet, or bolt 20, is a rocker arm 21, having its lower end provided with an angularly turned arm 22, adapted to project in such a position that, when the arm 21 is rocked, it will engage the supporting arm 16. A further rocking of the arm 21 will thereupon cause a swinging of the supporting arm 16 on its pivot.

The upper end of the rocker arm 21 is angularly turned, as at 23, and provided with an eyelet in which is secured one end of a cable 24, which is projected through a slot 25, formed in the portion 12, a suitable roller 26 being mounted in this portion for engaging the cable 24. The cable 24 is passed through the slot 25 and extend sufficiently to permit its passage to a position, accessible to the driver of the vehicle. The driver of the vehicle, when desiring to sound the horn 7, may, by pulling on the cable 24, rock the arm 21 sufficiently to swing the supporting arm 16 into such a position as to cause the periphery of the disc 17 to engage the periphery of the fly wheel 19. This engagement will cause a rotation of the disc 17 and thereupon effect a rotation of the flexible shaft 9, which is connected concentrically to the disc 17 in any desired manner,

so as to rotate in unison with the disc 17. Upon the release of the pulling strain on the cord 24, the spring 18 will tend to move the disc 17 into a position, so as to be free of engagement with the fly wheel 19.

It will be noted, as shown clearly in Fig. 1, that the disc 17 extends at an angle to the fly wheel 19, the purpose of this being to provide a lateral engagement as much as possible, so that the disc 17 will not be thrust directly perpendicularly to the periphery of the fly wheel 19. In this way, the disc will be relieved considerably of strain, while, at the same time, an efficient operation is provided.

It is believed that the durability and simplicity of the structure is evident from the description given.

While I have illustrated and described the preferred form of structure, I do not wish to limit myself to the precise form of structure shown, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

What I claim is:

1. A motor horn operating mechanism comprising a bracket, adapted for mounting on a motor; a supporting arm depending from said bracket; a rockably mounted arm carried by said supporting arm; a rotatable disc mounted on said rockably mounted arm and adapted, upon rocking of said arm in one direction for engaging the periphery of the fly wheel of said motor; resilient means for normally retaining said disc free from said fly wheel; and an arm swingably mounted on said supporting arm for rocking said rockably mounted arm for moving said disc into engagement with said fly wheel at will.

2. A motor horn operating mechanism comprising a bracket, adapted for mounting on a motor; a supporting arm depending from said bracket; a rockably mounted arm carried by said supporting arm; a rotatable disc mounted on said rockably mounted arm and adapted, upon rocking of said arm in one direction for engaging the periphery of the fly wheel of said motor; and arm swingably mounted on said supporting arm for rocking said rockably mounted arm, for moving said disc into engagement with said fly wheel at will; and resilient means for normally retaining said disc out of engagement with said fly wheel.

3. A motor horn operating mechanism comprising a bracket having a base adapted for mounting on a motor; a flange projecting upwardly from said base, adjacent one side thereof and having a slot formed therein; an arm depending from said base; a rockable arm mounted on the lower end of said depending arm; a disc rotatably mounted on said rockable arm intermediate its ends and adapted for movement into engagement with the periphery of the flywheel of said motor, said disc being inclined toward said fly wheel; resilient means for normally retaining said disc free from said fly wheel; a flexible shaft connected to said disc and adapted, upon rotation of said disc, for effecting an operation of a horn mechanism with which used; a swingably mounted arm mounted on said depending arm and having its lower end angularly turned and adapted for engagement with said rockably mounted arm, said swingably mounted arm being adapted for moving said disc into engagement with said fly wheel, upon movement in one direction; and a cord attached to said swingably mounted arm, adjacent its upper end and projected through said slot for effecting the swinging of said arm at will.

In testimony whereof, I have signed the foregoing specification.

ULRIC BELIVEAU.