Sept. 23, 1941. J. H. PRESSLEY 2,257,022

ROTARY INDICATING DEVICE

Filed July 25, 1939

Fig. 1.

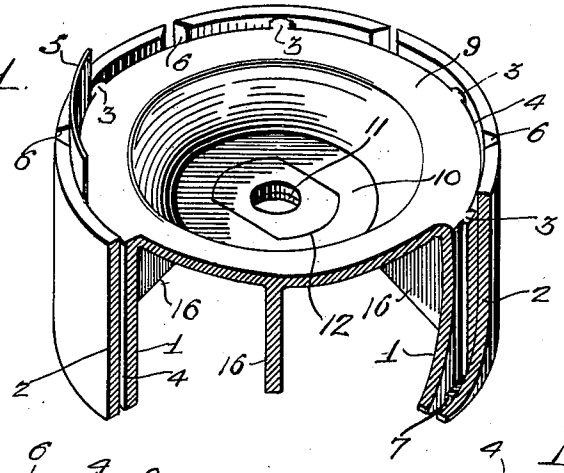


Fig. 2

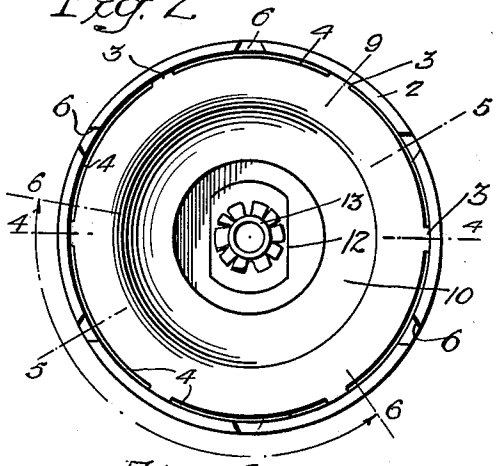


Fig. 3

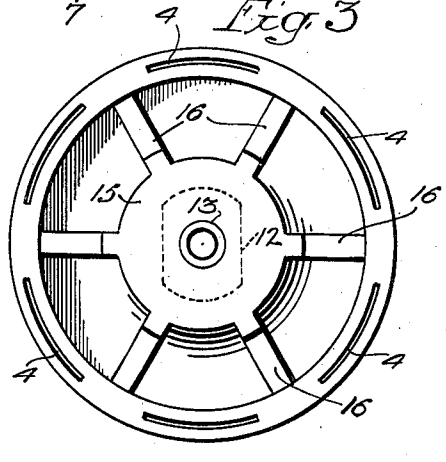


Fig. 4.

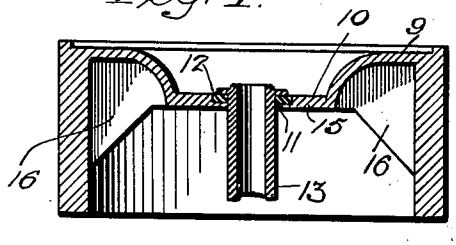


Fig. 5.

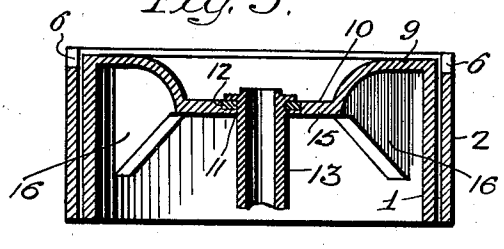
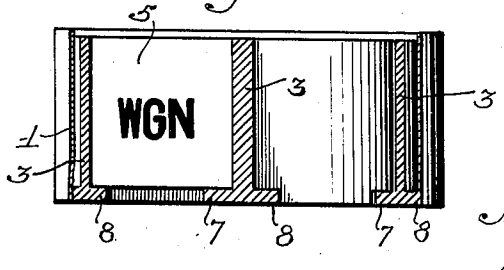


Fig. 6



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2,257,022

UNITED STATES PATENT OFFICE

2,257,022

ROTARY INDICATING DEVICE

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Application July 25, 1939, Serial No. 286,486

8 Claims. (Cl. 116—129)

This invention relates to a novel rotary indicating device particularly adapted for use as a tuning indicator for a radio receiver. A specific example of such use is disclosed in the copending application of Jay E. Barth, Serial No. 286,490 filed July 25, 1939.

The principal object of the invention is to provide in such a device a simple indicia tab holder which may be formed economically by a simple manufacturing process.

Another object of the invention is to provide in such a device a novel indicia tab holder of integral form which may be constructed in a simple manner by molding, as described further hereinafter.

A further object of the invention is to provide in such a device an indicia tab holder constructed so as to readily and removably receive a plurality of indicia tabs, and adapted to provide such protection for the tabs that they are subjected to substantially no wear or deterioration.

Still another object of the invention is to provide in such a device an indicia tab holder comprising an integral body of transparent material novelly constructed to provide peripheral tab-holding means and radially reinforcing ribs dividing said body into sectors, each accommodating one of the indicia tabs.

A still further object of the invention is to provide in such a device an indicia tab holder of this character having a peripheral dual wall structure defining slots for receiving the indicia tabs.

Other objects and features of the invention will appear hereinafter.

Fig. 1 is a perspective view of the indicia tab holder having a portion thereof cut away for the sake of illustration;

Fig. 2 is a plan view of the device;

Fig. 3 is a bottom view of the same;

Fig. 4 is a sectional view taken along line 4—4 of Fig. 2;

Fig. 5 is a sectional view taken along line 5—5 of Fig. 2; and

Fig. 6 is an arcuate sectional view taken just inside the outer peripheral wall between the lines 6—6 of Fig. 2.

Referring to the several views of the drawing, the indicia tab holder is formed as an integral unit of any suitable transparent material. Preferably, the device is formed of moldable transparent material by pouring such material into a metal mold, and, if necessary, subjecting it to pressure, thus forming the complete unit in one operation. Any of the known transparent moldable materials may be employed, such as the thermoplastic moldable materials made from cellulose acetate.

The device comprises a pair of concentric peripheral walls 1 and 2 which are spaced in close relation to one another. At circumferential spaced points these walls are joined by partitioning portions 3 which divide the space between the walls into slots 4 for receiving the indicia tabs, one of which is shown at 5. Intermediate the partitions 3, the outer wall is provided with small recesses 6 to facilitate removal of the indicia tabs. At the lower end of each partitioning portion 3, there are provided tab-seating portions 7 and 8 (see Fig. 6) which extend arcuately from each side of the partitioning portion 3, as illustrated. This decreases the length of the slots 4 at the lower portion of the device compared to the length of the slots at the upper part of the device, as may be seen by comparison of Figs. 2 and 3. Thus, when an indicia tab is inserted in one of the slots 4 from the upper side of the device, it rests upon the tab-seating portions at the bottom of the slot, as shown in Fig. 6.

A transverse web 9 at the top of the structure is joined to the inner wall 1, as may be clearly seen in Fig. 1. This web is preferably depressed, as shown at 10, and the central depressed portion has a central opening 11 (Figs. 4 and 5) therein and carries an apertured metal insert 12. The purpose of this is to accommodate means for rotatably supporting the indicia tab holder. As illustrated, such means may comprise a metal support 13 extending through the opening 11 and affixed to the insert 12.

The central depressed portion of web 9 forms a sort of hub 15 and there are provided radial reinforcing ribs or webs 16 extending from portion 15 to the partitioning portions 3 and integrally joined to such portions and to the web 9. These ribs serve to rigidify and strengthen the structure and they divide the same into sectors, each serving to hold an indicia tab as above described. In the specific device illustrated, there are six sectors and the device will accommodate six indicia tabs, but it will be understood that any desired number, within the dimensional limitations in any instance, may be employed.

As mentioned above, the device has several important advantages. It may be manufactured simply and economically by a single molding process involving simply the pouring of the molten material into a suitable mold and subjecting the material to the necessary pressure. The indicia tabs may be easily inserted and removed

and they may be formed of relatively stiff material capable of slight curvature to conform to the arcuate shape of the slots. When the tabs are inserted in the holder, they are protected by the dual wall structure and, therefore, retain their usefulness over a long period of time. Further, the integral structure is strong and rigid and, if formed of material such as above mentioned, the device is practically unbreakable.

While a specific form of the index tab holder has been illustrated and described for the purpose of disclosure, it will be apparent that the device is capable of modification without departing from the scope of the invention, as defined in the appended claims.

I claim:

1. An indicia tab holder, comprising a molded one-piece transparent body having closely spaced concentric walls about the peripheral portion of the body, spaced partitioning portions between said walls dividing the said wall structure into a plurality of sections with the walls of each section defining an open slot for removably receiving an indicia tab, and radial reinforcing ribs extending to said partitioning portions and dividing the body into sectors each accommodating an indicia tab, as aforesaid.

2. An indicia tab holder, comprising a molded one-piece transparent body having closely spaced concentric walls about the peripheral portion of the body, spaced partitioning portions between said walls dividing the said wall structure into a plurality of sections, the walls of each section defining an open slot for removably receiving an indicia tab, a web joined to the top of the inner wall sections and said partitioning portions, radial reinforcing ribs joined to said web and said partitioning portions and dividing the body into sectors each accommodating an indicia tab as aforesaid, and means attached to said web for supporting the holder.

3. A rotary indicating device, comprising a molded one-piece body including an outer cylindrical transparent wall, an inner cylindrical wall in closely spaced relation to said outer wall, a plurality of partitioning and wall-joining elements extending between said walls at circumferentially spaced points and integrally joining the walls to maintain them in relatively fixed relation, said walls forming cooperatively a plurality of narrow arcuate open-end slots extending circumferentially between successive partitioning elements, said slots being adapted to removably receive thin indicia tabs inserted in the open end of said slots, tab-seating elements integral with the walls at the opposite ends of said slots, an axial support member, and means permanently attaching the said wall structure to said support member.

4. A rotary indicating device, comprising a molded one-piece body including an outer cylindrical transparent wall, an inner cylindrical wall in closely spaced relation to said outer wall, a plurality of partitioning and wall-joining elements extending between said walls at circumferentially spaced points and integrally joining the walls to maintain them in relatively fixed relation, said walls forming cooperatively a plurality of narrow arcuate open-end slots extending circumferentially between successive partitioning elements, said slots being adapted to removably receive thin indicia tabs, a hub disposed centrally of said body, means integrally securing the said wall structure to said hub, and an axial support member secured to said hub.

5. A drum-like rotary indicator device, comprising a molded one-piece transparent body including a pair of concentric vertical walls permanently secured to one another in closely spaced relation, the said wall structure being of greater diameter than depth, said walls forming narrow vertical slots open at the top thereof to removably receive indicia tabs, a web integral with the top edge of the inner wall and closing the top of said device, and a support member secured to the central part of said web and extending axially downward through said device.

6. A drum-like rotary indicator device, comprising a molded one-piece transparent body including a pair of concentric vertical walls permanently secured to one another in closely spaced relation, the said wall structure being of greater diameter than depth, said walls forming narrow vertical slots open at the top thereof to removably receive indicia tabs, a web integral with the top edge of the inner wall and closing the top of said device, said web having a central depressed portion, a plurality of radial reinforcing ribs extending from said central portion to said inner wall and integrally joined to said web and the inner wall, and a support member secured to the central part of said web and extending axially downward through said device.

7. As an article of manufacture, an indicia tab holder for a rotary indicating device, comprising a molded one-piece transparent body including closely spaced inner and outer peripheral walls, spaced partitioning portions extending between and integrally joined to said walls and dividing the dual wall structure into a plurality of sections, the walls of each section defining an open slot for removably receiving an indicia tab, and a supporting portion integrally joined to the inner wall and extending within the confines of the wall structure.

8. An indicia tab holder, comprising a molded one-piece transparent drum of relatively large diameter compared to its axial dimension and having closely spaced concentric peripheral walls, spaced partitioning portions between said walls, the walls and partitioning portions defining open slots for removably receiving indicia tabs, and a supporting and rigidifying structure within said walls and joined thereto.

JACKSON H. PRESSLEY.