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J. G. YOUNGER

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RADIO DIAL

Filed Aug. 22, 1931

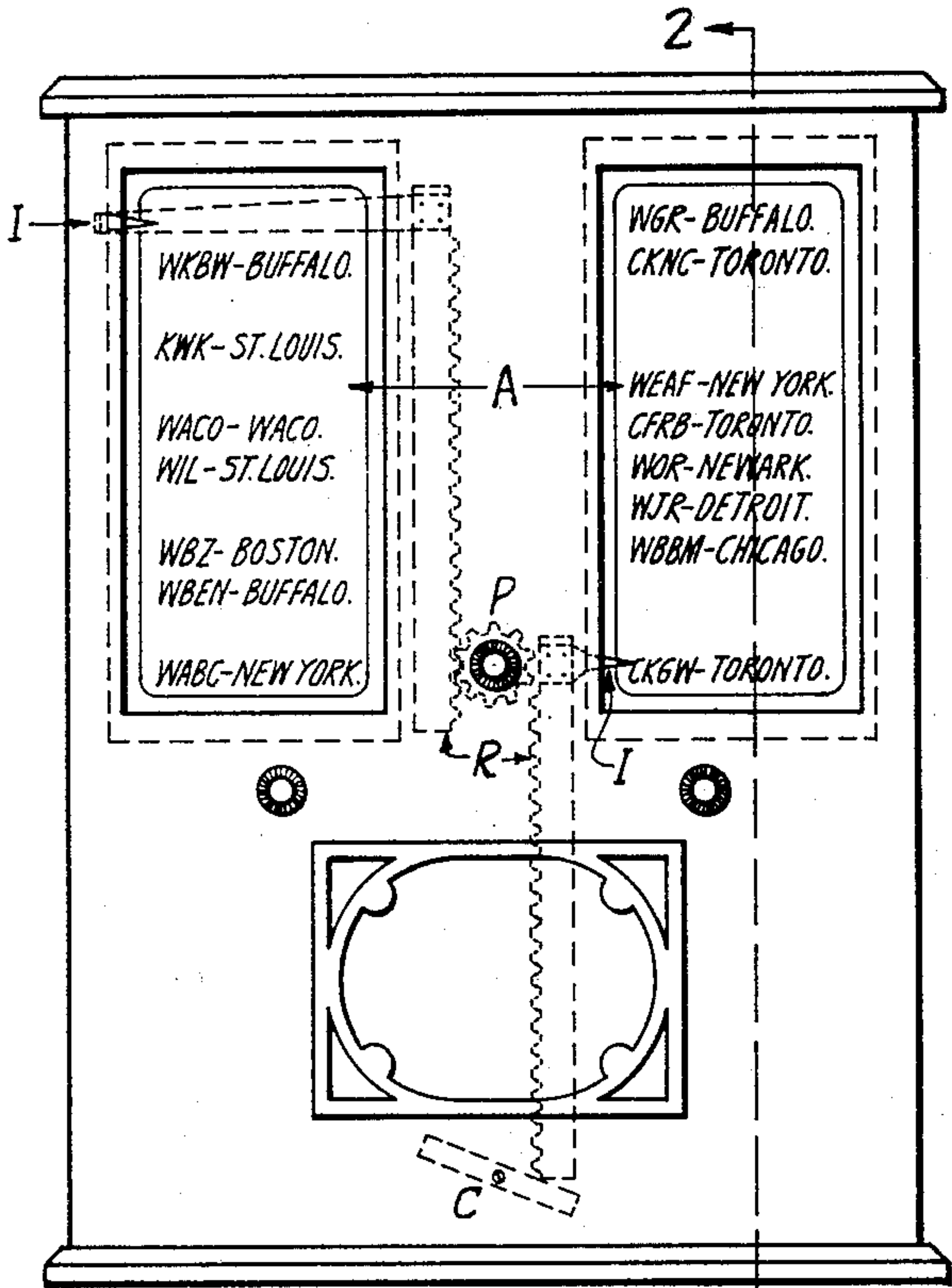


FIGURE 1. 2 ←

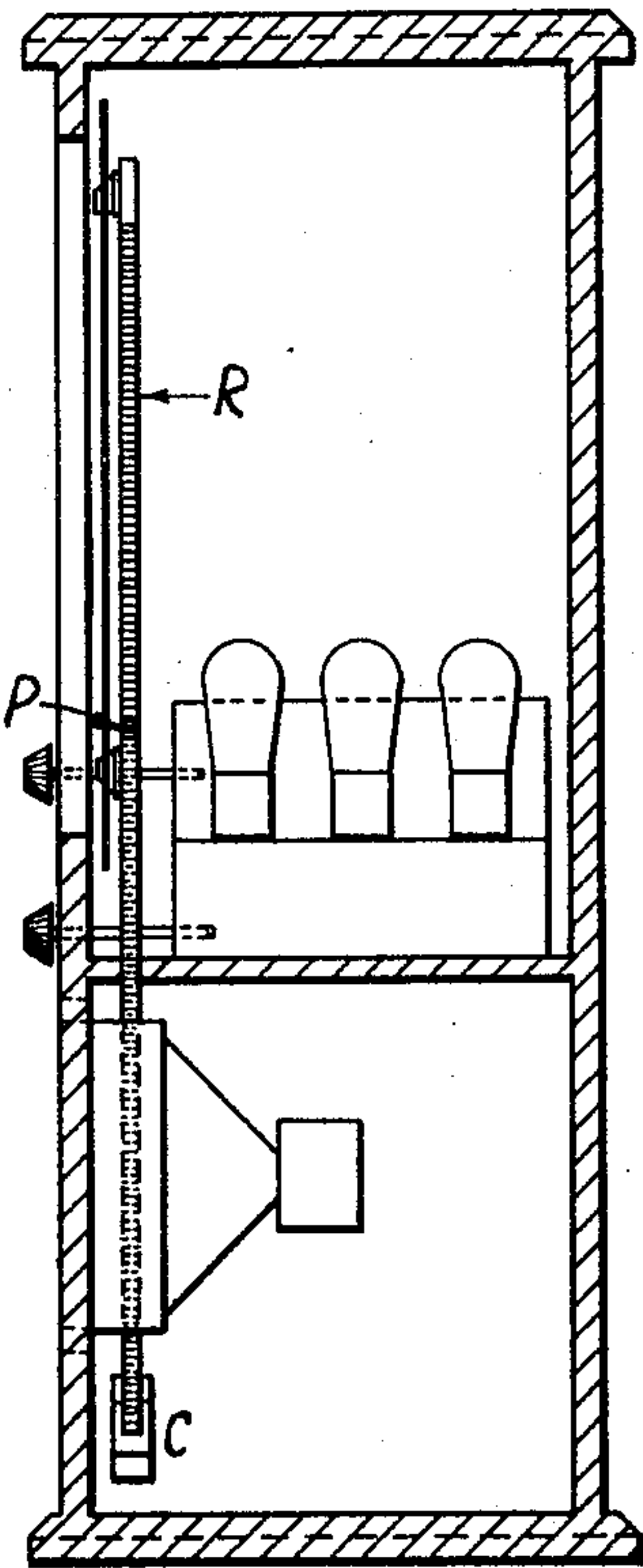


FIGURE 2.

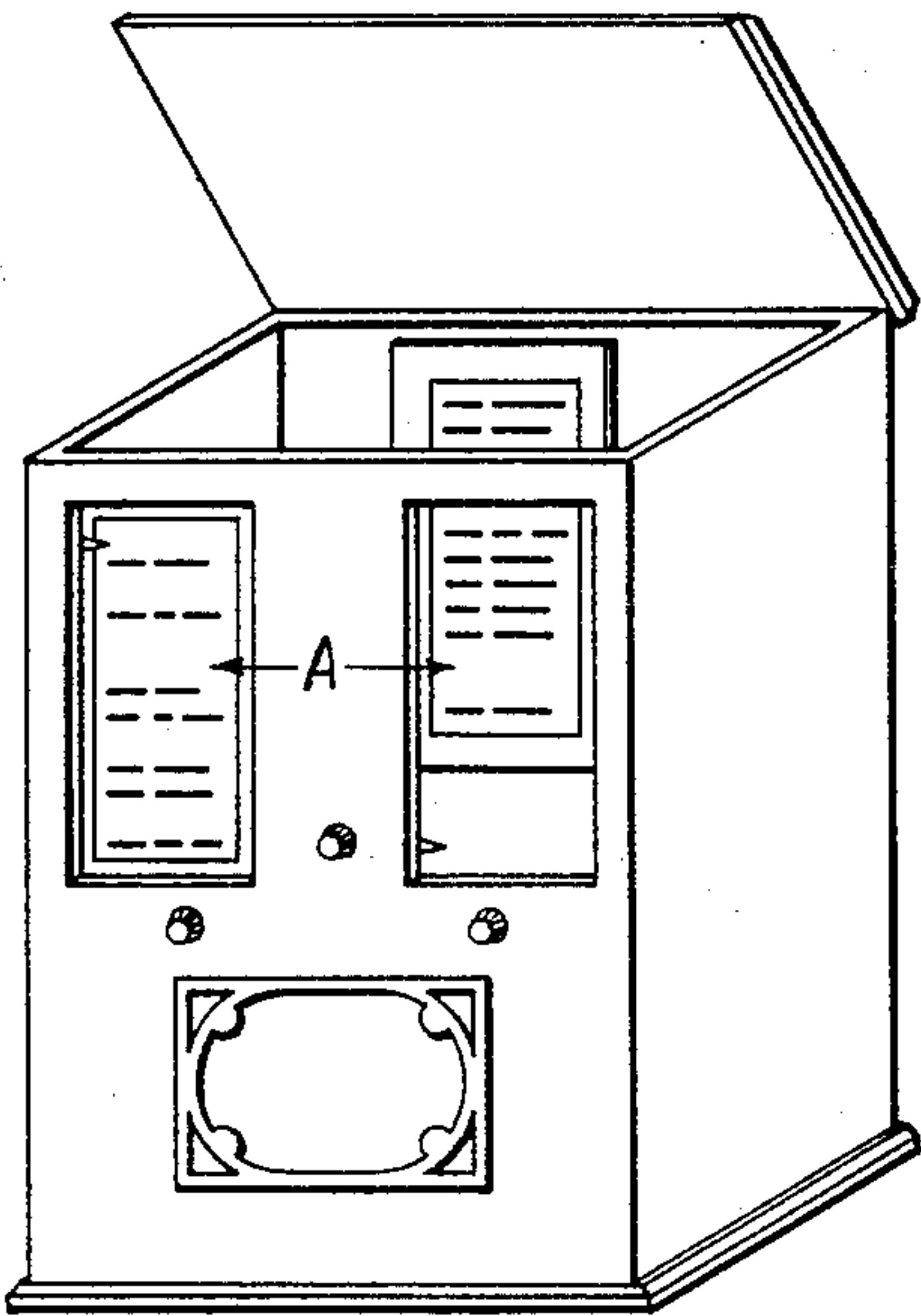


FIGURE 3.

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RADIO DIAL

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My invention relates to improvements in a radio dial and the objects of my invention are to have a full vision stationary vertical radio dial of sufficient width to enable the
5 call letters of radio stations and the cities or towns in which they are located to be marked thereon and in addition thereto the wave lengths or kilocycles of these stations if desired. The dial itself is stationary except
10 when it is desired to remove it for the purpose of changing the stations shown on it and the whole face of the dial, showing the usual kilocycles and also call letters of each station and the cities or towns in which each
15 station marked thereon is located is clearly visible at all times. Thus this invention combines the usefulness of a radio dial and a radio log, and enables the radio dial to better perform the functions required of it.
20 When the tuning knob is turned an indicator moves up or down the face of the dial pointing to the station tuned in and thus one may see, at a glance, the call letters of the station, and the cities or towns in which they
25 are located, and in addition thereto the wave lengths or kilocycles of these stations if desired.

I obtain these objects by the mechanism illustrated in the accompanying drawing, in
30 which—

Fig. 1 shows the front elevation of "Autolog" with part of mechanism shown in section.

Fig. 2 shows side elevation of Fig. 1.

35 Fig. 3 shows front view of "Autolog" showing that the "Autolog" is easily removed for the purpose of adding new stations or correcting or amending names or letters of stations shown on it.

40 Similar letters refer to similar parts throughout the several views.

Referring to the drawing:—

"A" represents the "Autolog" composed of any material suitable for having marked
45 thereon the call letters of radio stations and

location of stations, and in addition thereto the wave lengths or kilocycles of these stations if desired. This "Autolog", "A" is mounted on a radio panel by inserting it in
50 slots for the purpose of holding it in a stationary position, except when it is desired to remove it for any purpose.

"P" designates a toothed pinion which is keyed on the axle of the tuning knob and which is rotatable through the operation of
55 the tuning knob of the radio receiver.

The teeth of pinion "P" and the teeth of rack "R" are normally in mesh as shown in Figure 1. Rack "R" is mounted slidably on the rear of the instrument panel in such a
60 way that it can slide upwards or downwards freely in a vertical groove in the rear of the instrument panel. Indicator "I" designates a metallic indicator one end of which is rigidly mounted on rack "R" and the other end
65 of which is projected through a slot running parallel to and the length of "Autolog" "A" and then shaped to point to "Autolog" "A". Thus when the tuning knob is turned it rotates pinion "P" which meshes with rack
70 "R" to which indicator "I" is rigidly fastened and the indicator "I" thus moves upwards or downwards as the tuning knob is turned and points at all times to the station
75 tuned in on the receiving set.

In the accompanying drawing the radio receiver is shown with two dials which may be used to eliminate one long dial which would be necessary if one dial were to be
80 used to embrace the whole broadcasting band. When two dials are used there will be one lever "C" pivotally mounted on the rear of the panel and two racks "R", when one rack "R" bearing indicator "I" is moved
85 downwards and strikes lever "C", lever "C" moves on its axle and pushes other rack "R", upwards until its teeth mesh with pinion "P", at which time the teeth of other rack
"R" cease meshing with pinion "P".

I am aware that prior to my invention 90

radio dials have been made, I, therefore, do not claim such a combination broadly; but

What I do claim as my invention, and desire to secure by Letters Patent is—

5 A radio dial of the character described comprising two stationary vertical panels having indicia thereon, a tuning knob having an axle with a pinion mounted thereon, two
10 slidably mounted racks each carrying an indicator adapted to register with the respective panels, a pivotally mounted lever selectively engaging said racks and thereby causing said racks to alternately mesh with
15 said pinion.

JULIUS GEORGE YOUNGER.

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