

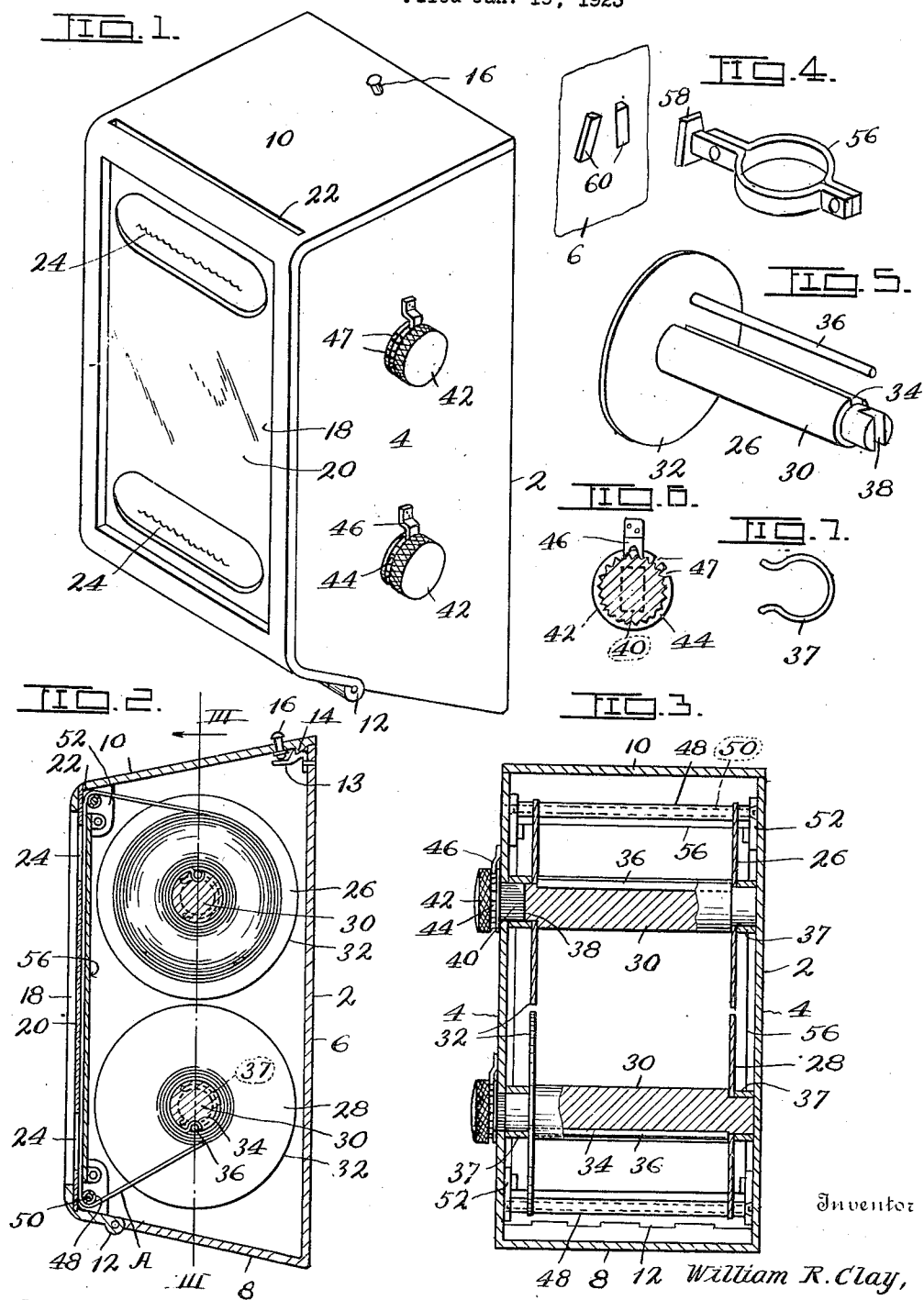
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W. R. CLAY

AUTO SCORE

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Witness:

Pred C. Fischer.

By

F. G. Fischer,

Attorney.

Inventor

William R. Clay,

UNITED STATES PATENT OFFICE.

WILLIAM R. CLAY, OF KANSAS CITY, MISSOURI.

AUTO SCORE.

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To all whom it may concern:

Be it known that I, WILLIAM R. CLAY, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Auto Scores, of which the following is a specification.

My invention relates to a device which may be employed to advantage on motor vehicles for holding road maps, delivery route sheets, and sheets upon which may be entered the expense incurred on a trip for gasoline, lubricating oil, and other supplies. The device may also be used in an office for holding a calendar, memoranda, etc.

The device may be attached to the steering post or other portion of a motor vehicle, or it may be used on a desk in an office, and in addition to performing its primary function of holding the different sheets above-mentioned may be employed as a paper-weight.

The device in its preferred form embodies, among other features, a suitable case in which two spools are removably mounted, so that the ends of a sheet may be attached to said spools to be rolled and unrolled as will hereinafter appear, and a transparent element at the front of the case through which entries on the sheet may be viewed and which is provided with one or more openings, so that entries may be made upon the sheet with a pen or pencil.

In order that the invention may be fully understood, reference will now be had to the accompanying drawing, in which:

Fig. 1 is a perspective view of the device.

Fig. 2 is a vertical sectional view of the device.

Fig. 3 is a vertical section on line III—III of Fig. 2, with the sheet removed.

Fig. 4 is a detail of means whereby the case may be attached to the steering post of a motor vehicle.

Fig. 5 is a detail perspective view of one of the spools with one of its flanges removed.

Fig. 6 is a detail sectional view of one of the knobs for rotating the spools and a detent for holding said knob at any point of its rotation.

Fig. 7 is a detail of one of the spring bearings in which the spools are mounted.

In carrying out the invention, I employ a case 2 in which the sides 4, the back 6 and a portion of the bottom 8 are formed in-

tegral or otherwise firmly connected to each other, the front and top of said case 2 being open so that access may be had to the interior mechanism hereinafter described.

Normally the front and top of the case 2 are closed by a lid 10 connected to the bottom wall 8 by a hinge 12 and held in closed position by a spring latch 13 secured to the back 6 and engaging a lug 14 at the upper inner portion of the lid 10. A push-pin 16 is loosely mounted in the upper portion of the lid 10, for disengaging the spring latch 12 from the lug 14 when it is desired to open said lid 10. The lid 10 has a large opening 18 in its front portion which is closed by a transparent element 20 such as glass or celluloid slipped into position through a slot 22 in the upper portion of the lid 10. The transparent element 20 is provided with suitable openings 24, two being shown in the present instance, so that writing may be entered on a sheet hereinafter referred to.

26 and 28 designate a pair of spools, each consisting of a shaft 30 provided adjacent to its ends with flanges 32. The shafts 30 have longitudinal grooves 34 to receive pins 36 whereby the ends of a sheet or roll of paper A, are detachably connected to said shafts 30. The ends of the shafts 30 are mounted in resilient bearings 37 open at their forward portions so that said shafts 30 may be readily placed in position or removed, as desired. The bearings 37 are fixed at their rear portions by soldering or otherwise to the sides 4 of the case 2 leaving their open forward portions free to expand, so that the shafts 30 may be placed in position or removed as stated.

A recess 38 is formed in one end of each shaft 30 to receive the corresponding lug 40 on a knob 42 provided with a peripheral groove 44 and reliably held in active position by a detent 46 secured to the adjacent side of the case 2. Notches 47 formed in the periphery of each knob 42, communicate with the associate groove 44 to pass the bifurcated end of a detent 46 when applying the knob to the recessed end 38 of the spool, or removing it therefrom. The inner surface of the grooves 44 are slightly serrated or roughened to correspond with the engaging surfaces of the detents 46, so that the latter will reliably hold the former at any point of their rotation and thereby keep paper A, taut. The paper A, in its passage

from one spool to the other runs around guide rollers 48 mounted on screws 50 removably-held in lugs 52 carried by the lid 10.

5 56 designates a sheet metal plate secured to the lugs 52 of the lid 10 and adapted to support the paper A, while the same is being written upon.

10 In practice the spools 26 and 28 are removed from the case 2 and one end of the sheet A is placed over the groove 34 of one end of the shaft 30 and then forced into and held in said groove by one of the pins 36. The greater portion of the paper A is 15 then wound upon the spool, enough being left free to thread it between the guide rollers 48 and the transparent element 20. The other end of the paper is then secured to the other spool through the intermediacy of the other pin 36. Enough slack is left 20 in the paper A to enable the spools to be positioned in the bearings 37 in the case 2. The lid 10 is then closed and secured by the latch 13, after which the knobs 42 are 25 placed in position and the slack paper is wound upon the full spool, which in the present instance is the upper spool 26. As entries are made from time to time upon the paper through openings 24 the 30 lower spool 28 is rotated to wind the paper thereon and present a fresh surface for other entries. The transparent element 20 permits the entries or printed matter upon the exposed portion of the paper to be read 35 which is quite a convenience when a touring map is employed as it enables the tourist to not only ascertain the name of the nearest town, but those in proximity thereto.

40 Means for attaching the case 2 to the steering post of a motor vehicle is provided in the form of a clamp 56 provided at one end with an upwardly tapered block 58 over which two downwardly diverging lugs 60 on the back 6 of the case 2, are adapted 45 to fit, see Fig. 4.

From the foregoing description it will be understood that I have provided a device embodying the advantages above pointed out, and while I have shown and described

the preferred construction, combination 50 and arrangement of parts, I reserve the right to make such changes as properly fall within the spirit and scope of the claims.

Having thus described my invention, what I claim and desire to secure by Letters Pat- 55 ent, is:—

1. In a device of the character described, a case, a lid to said case having a large opening in its front portion, a transparent element closing the opening in the lid and 60 having an opening therein through which an underlying sheet may be written upon, spools mounted in the case and upon which the sheet may be wound and unwound to move it past the opening in the trans- 65 parent sheet, knobs having lugs extending through a wall of the case to engage recessed ends of the respective spools to rotate the same, detents secured to the case and engaging the respective knobs to 70 perform the dual function of holding said knobs in engagement with the spools and yieldably holding said knobs at any point of their rotation, guide rollers mounted in the case to support a portion of the sheet 75 close to the back of the transparent element, and a support for the sheet while the same is being written upon.

2. In a device of the character described, a case, a lid to said case, bearings in the 80 case, a spool adapted to hold a sheet and embodying a shaft removably mounted in said bearings and provided with a recess in one end, a knob having a lug extending through a wall of the case to engage the 85 recessed end of the spool to rotate the spool, and a detent secured to the case and engaging the knob to perform the dual function of removably holding said knob in engage- 90 ment with the spool shaft and yieldably holding said knob at any point of its rotation.

In testimony whereof I affix my signature, in the presence of two witnesses.

WILLIAM R. CLAY.

Witnesses:

L. J. FISCHER,
F. C. FISCHER.