May 11, 1926. 1,583,970

C. E. HAGGERTY

ADVERTISING DEVICE

Filed Feb. 4, 1925 2 Sheets-Sheet 1

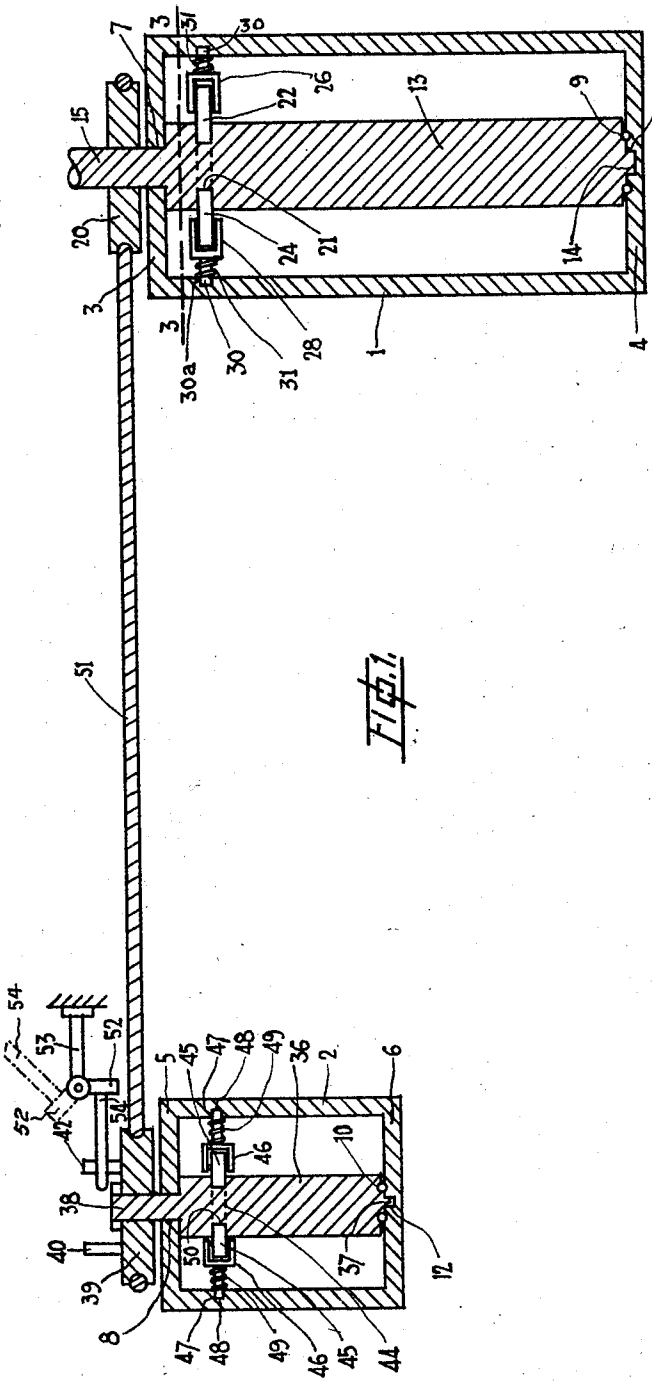


Fig. 1.

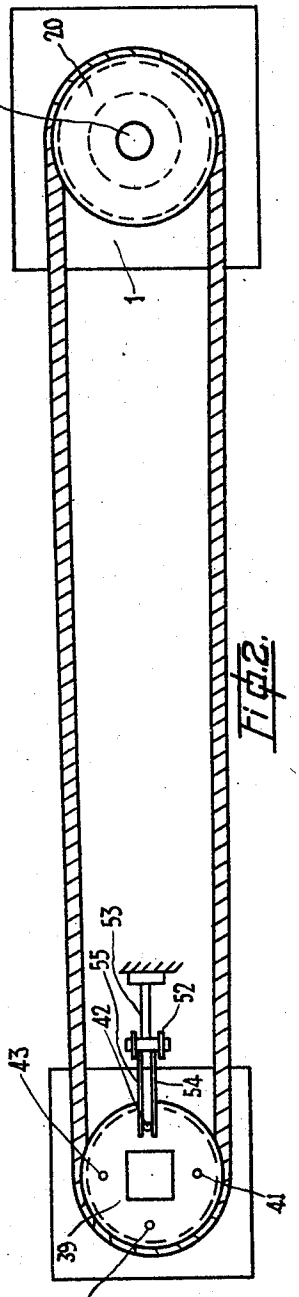


Fig. 2.

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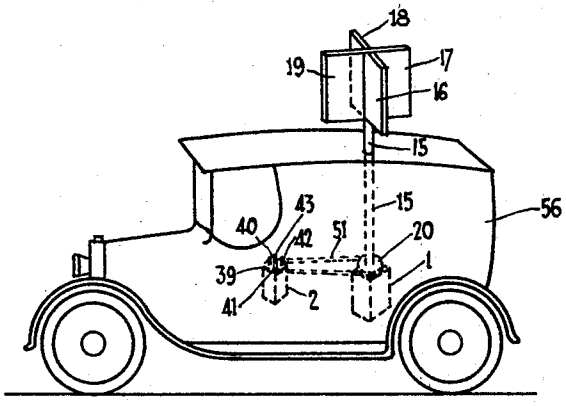


Fig. 5.

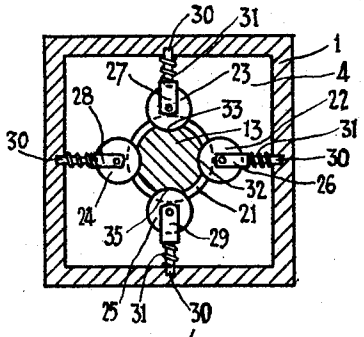


Fig. 3.

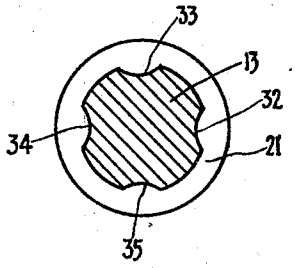


Fig. 4.

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Patented May 11, 1926. 1,583,970

UNITED STATES PATENT OFFICE.

CHARLES EDWARD HAGGERTY, OF VANCOUVER, BRITISH COLUMBIA, CANADA.

ADVERTISING DEVICE.

Application filed February 4, 1925. Serial No. 6,770.

My invention relates to improvements in advertising devices, and the object of my invention is to provide a device of this character which is simple and inexpensive to construct and operate, which is highly attractive, and which is practical and of the utmost advertising efficiency.

I attain this object by the construction illustrated in the accompanying drawings in which

Fig. 1 is a sectional elevation of the sign operating mechanism.

Fig. 2 is top plan view of Fig. 1.

Fig. 3 is a cross sectional plan on the line 3—3 in Fig. 1 the shaft being shown in section at the roller groove.

Fig. 4 is an enlarged cross sectional plan view of one of the vertical shafts taken through the roller groove.

Fig. 5 is a view illustrating the embodiment of the invention with an automobile.

Similar figures of reference indicate similar parts throughout the several views.

The device consists of two rectangular casings or boxes 1 and 2 respectively, the casing 1 being of greater length than the casing 2, which casings are closed at their upper and lower ends 3—4 and 5—6 respectively, their upper ends being centrally apertured as at 7 and 8 and their lower ends being provided with ball races 9 and 10 surrounding centrally positioned sockets 11 and 12. Extending vertically within the casing 1 is a shaft 13 the lower end of which bears on the ball race 9 and is provided with a central pivot 14 rotatably fitting the socket 11, while its upper end is reduced to form a smaller diameter shaft 15 which extends rotatably through the central aperture 7 and after being extended to a suitable length is provided on its upper extremity with advertising sign-receiving plates or boards 16, 17, 18, and 19 arranged vertically and at right angles to each other. A sheave 20 is secured to the shaft 15 just above the top of the casing 1. Adjacent its upper end the shaft 13 is provided with a circumferential groove 21 in which are rotatably seated four equi-distantly spaced rollers, indicated by the numerals 22, 23, 24 and 25 each of which rollers is supported in a jaw, 26, 27, 28 and 29 respectively, which jaws are provided with pins 30 the ends of which are freely mounted in recesses 30[a] in the walls of the casing 1 and on these pins and between the casing walls and the jaws are mounted coil springs 31 serving to keep the rollers in spring-pressed engagement with the shaft 13 and the bottom of the groove 21 is undercut at four equidistant points, as at 32, 33, 34 and 25 to provide seats for the rollers and which, co-acting with the rollers, serve to hold the shaft against inadvertent movement due to vibration or other causes from any position in which it may be set.

The casing 2 is provided with a mechanism similar to that in casing 1, having a vertical rotatable shaft 36, the lower end of which bears on the ball race 10 and is provided with a central pivot 37 rotatably fitting the socket 12, while its upper end is reduced to form a smaller diameter shaft 38 which extends rotatably through the central aperture 8 and is fitted with a sheave 39 positioned in alignment with the sheave 20 on shaft 15, and sheave 39 is provided with four vertical pins spaced equidistantly 40, 41, 42, and 43 forming handles for rotating the sheave and also acting as indicators to indicate the position of the respective sign plates 16, 17, 18, and 19 as hereinafter mentioned. The shaft 36 is also provided towards its upper end with a circumferential groove 44 in which are seated four equidistantly spaced rollers 45 each supported in a jaw, indicated by the numeral 46, which jaws are provided respectively with pins 47 the ends of which are freely mounted in recesses 48 in the casing wall on which pins and between the casing walls and the jaws are mounted coil springs 49 serving to keep the rollers in spring-pressed engagement with the shaft 36 and the bottom of the groove 44 is undercut at four equidistant points as at 50 to provide seats for the rollers, similar to the undercut seats already described with reference to shaft 13, so that the shaft 36 is also held against inadvertent movement due to vibration or other causes.

51 indicates a rope passed around the sheaves 20 and 39. 52 indicates an arm pivotally connected to a stationary bracket 53 secured to any suitable support, which arm is provided with spring steel fingers 54 and 55 and may be swung down to bring the fingers on opposite sides of any one of the handles 40, 41, 42, or 43, as shown by the full lines in Fig. 1, to positively prevent any rotary movement of the sheave 39 or swing

up to clear them and permit its movement, as desired as shown by the dot and dash lines.

The manner in which the device is used and its operation will be readily seen, reference being had to Fig. 5, in which its embodiment in an automobile, indicated by the numeral 56, is illustrated. The casing 1, with its associated parts, is placed in the interior of the vehicle, with the shaft 15 extending through the canopy to a suitable height and fitted at its extremity with the sign boards 16, 17, 18, 19 on which the advertising matter is placed. The casing 2, with its associated parts, is placed within easy reach of the driver so that by gripping any one of the handles 40, 41, 42 or 43 and partially or entirely rotating the sheave 39 the sheave 20 and the shaft 15 may also be partially or entirely rotated and consequently the sign boards may be moved to face in any desired direction as required. As the sign boards are not within the view of the driver it is necessary for him to know the actual position of the same so that the handles are placed on the same axes as the boards and also as the undercut seats in the shafts 13 and 36, preferably on the longitudinal and transverse axes of the vehicle, and consequently when the handles are brought into position lying on these said axes the sign boards are then known to be properly positioned on the same axes and the locking rollers are seated in their resepctive undercut seats so that on removing the hand from the sheave operating handle, the shaft 15, and consequently the sign boards are held against inadvertent movement from their adjusted position.

From the foregoing it will be seen that I have devised a simple, practical and attractive advertising device.

What I claim as my invention is:—

1. An advertising device comprising, a rotatable shaft having a circumferential groove in the bottom of which are spaced undercut seats, said shaft being provided with a sheave and an extension extending through the sheave on the end of which sign boards are mounted, a second rotatable shaft spaced from the first-mentioned one also having a circumferential groove in the bottom of which are spaced undercut seats, said second shaft being provided with a handled sheave, a rope passed around said sheaves, a stationary enclosing casing for each shaft, a plurality of jawed members carried freely on the walls of the respective casings opposite the shaft groove, there being as many jawed members as there are undercut seats in the shaft groove, rollers carried by said jawed members seated in the shaft groove adapted when in registration to engage said undercut seats, and springs mounted between the casing walls and the said jawed members.

2. An advertising device comprising, a rotatable shaft provided with a sheave and an extension extending through the sheave on the end of which are mounted sign boards arranged longitudinally and transversely, said shaft having a circumferential groove in the bottom of which are spaced undercut seats arranged to lie respectively alined with the respective sign board axes, a second rotatable shaft spaced from the first-mentioned one also having a circumferential groove in the bottom of which are spaced undercut seats arranged to lie respectively alined with the respective sign board axes and the first-mentioned shaft undercut seat axes, said second shaft being provided with a sheave, a rope passed around both sheaves, a stationary enclosing casing for each shaft, a plurality of jawed members in each casing carried freely on the walls thereof opposite the shaft groove and the undercut seats thereof, there being as many jawed members as there are undercut seats in the groove, rollers carried by said jaws seated in the shaft groove normally engaged in the respective undercut seats, springs mounted between the casing walls and the jawed members, and handles secured to the second shaft sheave as many in number as there are undercut seats in its shaft groove and alined respectively with the respective seat axes.

Dated at Vancouver, B. C., this 29th day of January, 1925.

CHARLES EDWARD HAGGERTY.