No. 778,307. PATENTED DEC. 27, 1904.

H. C. COULTAUS.

SIGN OR ADVERTISING DEVICE.

APPLICATION FILED MAY 26, 1904.



Fig:1

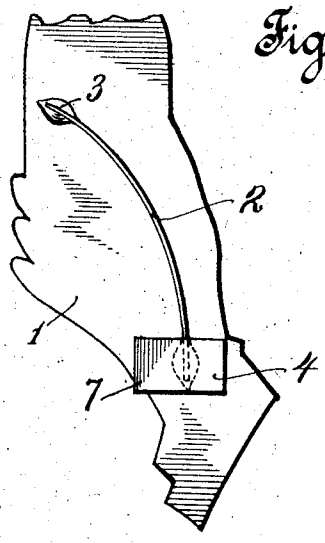


Fig:2

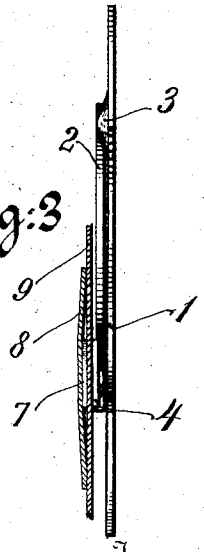


Fig:3

Witnesses,
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No. 778,307. Patented December 27, 1904.

UNITED STATES PATENT OFFICE.

HENRY C. COULTAUS, OF NEW YORK, N. Y.

SIGN OR ADVERTISING DEVICE.

SPECIFICATION forming part of Letters Patent No. 778,307, dated December 27, 1904.

Application filed May 26, 1904. Serial No. 209,840.

To all whom it may concern:

Be it known that I, HENRY C. COULTAUS, a citizen of the United States, and a resident of New York, in the county and State of New York, have invented new and useful Improvements in Signs or Advertising Devices, of which the following is a specification.

My invention relates generally to movable signs or advertising devices, and it is especially adapted for use in cars, omnibuses, boats, and other conveyances.

One object of my invention is to provide means by which a very slight vibration or jar to the support of the movable device will cause said device to move, and thus attract attention to it.

Another object of my invention is to provide means whereby such movable device may oscillate in arcs, so that if said device represents a movable part of a picture, for example, said part may be moved in a natural and easy manner.

My invention consists in certain features, parts, and combinations of parts hereinafter described and shown.

In the accompanying drawings, Figure 1 illustrates a plan view of one embodiment of my invention as applied to a concave surface on which is a picture of the head and shoulders of a man, the movable device being the representation of a man's hand holding a bottle and supported to one side of the other part of the picture. Fig. 2 is a rear view of the movable part shown in Fig. 1 detached, but with the upper part of the representation of the bottle broken away. Fig. 3 is a vertical section through the supporting and movable parts of the apparatus, but showing the invention as applied to a plane surface and the plane support being broken away.

Similar numbers represent like parts in all the figures.

1 is the movable device, shown in the drawings as the representation of a man's hand holding a bottle. Said device 1 is secured to the upper end of a spring, preferably a bow-spring 2, as at 3. This spring 2 is preferably bowed in the direction in which it is desired to yield, so that the weight of the part 1 will tend to contract the spring 2 when the lower end 4 is secured to a support. Every point of the spring beyond its fixed point will be at a less distance from the device 1 than is its fixed point from said device, and therefore the farther away that the device 1 from said fixed point is secured the greater will be the movement of said device. I have shown in Fig. 1 the lower end 4 of the spring secured to a concave support 5, on which is the picture 6 of the head and shoulders of a man, with said end in such a position that the hand of the movable part 1 will have the appearance of the hand of the representation and with the spring 2 bowed outward from said representation and with the connection 3 beyond a vertical line that would pass through the supporting end 4 of the spring.

It will be seen by referring to Fig. 1 that the spring 2 and its two connections 3 and 4 between the movable part 1 and the support 6 are all out of sight and covered by said part 1, and I prefer to so construct the apparatus, as such construction will not detract from the natural completed picture even when the part 1 moves.

7 is a strip, preferably of pliable metal, that is secured to the lower end 4 of the spring 2 and by means of which said spring may be attached to a card or other support having the fixed representation thereon, and the strip 7 may be secured to said support by being passed through a slit in the support by being bent double and then flattened out again on the back of the support and secured thereon by a strip 8 of flexible material, gummed or pasted to the back of said support, as shown in Fig. 3, the support 9 in this figure being plane instead of concave.

Any movements of the part 1 from the vibration of the spring will be in arcs or substantially in arcs from the fixed point of the spring, where it is secured to its support, and when made and arranged as shown in Fig. 1 the first tendency of the part 1 to move will be in the direction away from the picture 6, the gravity of the part 1 causing this movement. The resilience of the spring 2 will cause the part 1 to return to its normal position, and probably a little beyond the same. A slight vibration or jar of the support 5 or 9 will

cause the part 1 to swing or move back and forth substantially in arcs, and the hand with the bottle (see Fig. 1) will appear to move naturally back and forth as if it were a human hand forming part of the picture 6 supporting the bottle. When the support is concave, as shown in Fig. 1, the way that most advertising-cards are used in conveyances, the best results can be attained by concaving the moving part 1 to correspond or approximately correspond with the concavity of the support.

A very important feature of my invention is that when it is held in a conveyance the movement of the movable part will be in the direction of that of the conveyance. The movable part will oscillate just as well on a curved as on a straight surface, although this would not be the case if the movements of the moving part were up and down and such a curved surface as is shown in Fig. 1 were used.

Any representation or picture may be dided into fixed and movable parts, so that the movable parts will constitute complements of the entire representation and move in a manner natural to the original of what the picture represents.

I do not limit myself to the precise construction described and shown, as many changes other than those suggested may be made without departing from the main principles of my invention or sacrificing its chief advantages.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a support, of an advertising device and a vibratory spring fixed at one end on said support and having said advertising device secured on its free end, every point of said spring beyond its fixed end being at a less distance from said free end than is said fixed end.

2. The combination with a support, of an advertising device and a vibratory bow-spring fixed at one end on said support and having said advertising device secured on its free end, every point of said spring beyond its fixed end being at a less distance from said free end than is said fixed end.

3. A sign or advertising device consisting of a fixed part of a picture or representation, a movable part of said picture or representation, a spring fixed at one end and supporting the movable part of the picture or representation, and every point of said spring beyond its fixed end being at a less distance from its free end than is said fixed end.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY C. COULTAUS.

Witnesses:
ISABEL G. BLACK,
ADDISON GARDNER.