(No Model.)

A. DAHLSTROM.

ADVERTISING OR DISPLAY DEVICE.

No. 429,893. Patented June 10, 1890.

Fig. 1.

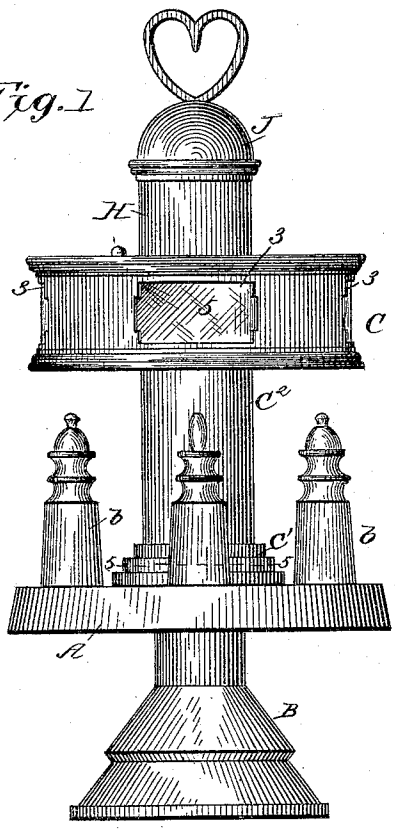


Fig. 2.

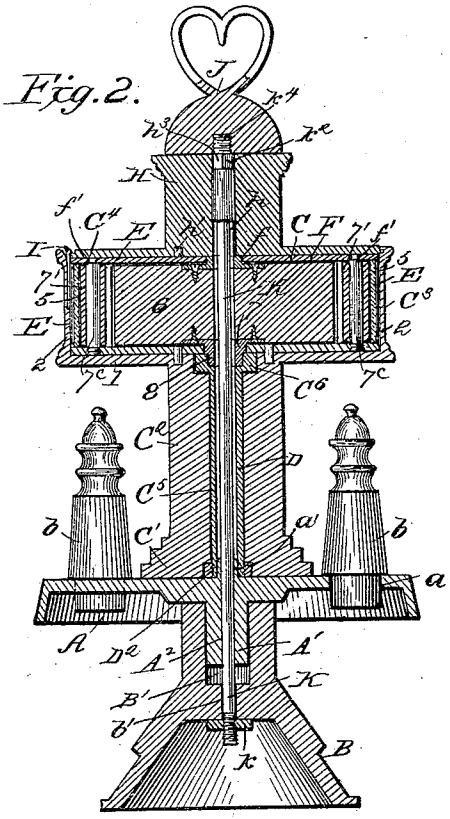


Fig. 3.

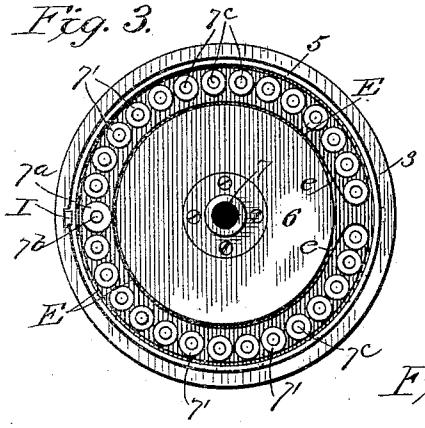


Fig. 4.

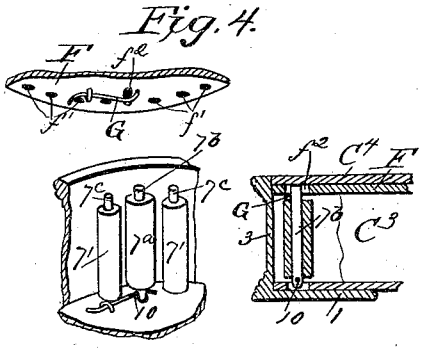
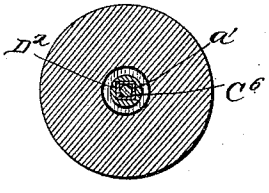


Fig. 5.



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ADVERTISING OR DISPLAY DEVICE.

SPECIFICATION forming part of Letters Patent No. 429,893, dated June 10, 1890.

Application filed October 7, 1889. Serial No. 326,280½. (No model.)

To all whom it may concern:

Be it known that I, ANDREW DAHLSTROM, residing at Ashton, in the county of Osceola and State of Michigan, have invented certain new and useful Improvements in Advertising or Display Devices, of which the following is a specification.

My invention relates to an advertising or display device more especially designed for use in the dining-rooms of hotels or dwellings and it has for its object to provide a suitably-constructed device of this character which may be constructed in the shape of a caster or be connected with a revolving table, or a revolving platform used for exhibiting articles of merchandise, &c.

To this end my invention consists in certain novel features of construction and peculiar combination of parts, all of which will be hereinafter fully described in the annexed specification, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of my improvement. Fig. 2 is a central vertical section thereof. Fig. 3 is a top view with the upper or cap plate removed. Fig. 4 is a detail view of the tension device hereinafter referred to, and Fig. 5 is a horizontal section taken on the line 5 5 in Fig. 1.

In the construction shown I have represented my improvement in the form of a caster for dining-tables; but I desire it understood that my improved display devices may be used in connection with and operated by any horizontally-disposed revolving platform.

In the drawings, A indicates a revolving platform, preferably of circular form, and which I shall term the "caster-platform," as this platform forms the support for the various cruets, said platform having apertures *a a* near its periphery, in which the bases of the cruets *b b* fit. This platform is provided at its center with a depending stem or lug A′, the upper end *a′* of which is extended above the platform, reduced, and made non-circular in cross-section, as clearly shown in Fig. 5 of the drawings.

The stem A′, which is centrally apertured, as at A^2, seats in a socket B′, formed in a supporting-standard or foot-piece B, said socket communicating with a central aperture *b′* in the foot B, which extends to the bottom thereof, as shown.

C denotes the display device, which consists of the base C′, the column C^2, the enlarged circular casing C^3, and the top or cap C^4.

D denotes a tubular shaft journaled in a central opening C^5 in the column C^2 and base C′, which is provided with a hollow non-circular head C^6 at its top and is provided with a non-circular open end D^2, which fits the non-circular extension *a′* of the stem A′, as clearly shown in Fig. 2 of the drawings.

The circular casing C^3 is formed of the base-plate 1 and the circular vertical rim 2, which is provided with a series of sight-openings 3 3, through which the scriptural text, bill of fare, picture, &c., may readily be seen. A glass rim 5 is placed inside vertical rim 2, as shown.

In connection with the display-case it is desired to arrange the advertisement on an endless tape or ribbon, which ribbon is to have its objective parts so arranged that the partial revolutions of said tape will cause the various "object" sections on the tape to pass in either direction from one sight-opening to its next succeeding opening. To this end I arrange a central core 6, made of wood or other suitable material, provided with a central metallic tubular hub 7, provided with a non-circular projection 8 at its lower end, which engages the non-circular hollow head C^6 of the shaft D.

E denotes an endless tape or ribbon, which is looped around the core 6, its oppositely-extending portions *e e* being looped about a series of rollers 7′, arranged in a circle within the rim, as most clearly shown in Fig. 3 of the drawings. One of the guide-rollers 7^a is of a larger diameter than the remaining rollers 7′, one face thereof being arranged to bear against one side of the core 6. The object of arranging the roller 7^a to bear against the core 6 is to form a suitable tension whereby the ribbon will positively move when said core is revolved. To this end I pivot the lower end of the shaft 7^b, on which the roller 7^a turns, to the bottom of the casing, as shown at 10.

F denotes a circular disk, which is pro-

vided with a central aperture f, which receives the extension of the hub, and with a series of apertures f', which form the bearings for the upper ends of the shafts 7^c of the rollers 7', and an elongated opening f^2, in which the upper end of the shaft 7^b extends, said upper end being normally forced toward the core by means of a spring-wire G, secured to the lower face of the disk F, as clearly shown in Fig. 4 of the drawings.

The top or cap plate C^4, which fits over the top of the casing, is held thereto by a lug h' and a spring-catch I, (see Fig. 2,) said top being provided with a collar or extension H, having a central aperture h.

The several parts are securely held together by a rod K, which passes down through the several central apertures (which form a continuous aperture) and is held in place by means of a nut k at its lower end, while its upper end passes up through the cap-plate C^4 being provided with a squared portion k^2, engaging a squared end h^3 of the opening h, its outer projecting end being screw-threaded at k^4, upon which is screwed a suitably-ornamented securing-nut J.

From the foregoing description, taken in connection with the drawings, it will be seen that as the platform A is turned the tubular shaft D will be revolved, and said shaft, engaging the core 6 in the manner described, will cause it (the core) to turn, and the tension device causing the endless tape to bear against said core will cause it (the tape) to turn, thereby changing the several objective points of the tape in a manner as will be readily understood by reference to the drawings. By arranging the several parts as described they are so adjusted that they will turn with a minimum amount of friction.

My invention is exceedingly simple and novel in construction, cheap as to cost, and effectual for its desired purpose.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with a revolving platform having a non-circular central projection a', of an advertising or display casing mounted on said platform, a revolving core 6, carrying the said advertisements or displays, and a tubular shaft mounted in said casing, having a non-circular end engaging the projection a' and connected at its upper end to the core 6, substantially as and for the purpose described.

2. The combination, with the revolving platform provided with a non-circular projection a', of the display device C, consisting of a column C^2, the casing C^4, having sight-apertures in its sides, a tubular shaft D, journaled in said column, provided with a non-circular recess in its lower end engaging the projection a', a revolving core mounted in said casing C^4 and engaging the shaft D to turn therewith, and an endless tape carrying the advertisement or display carried by said core, substantially as shown and described.

3. The combination, with the platform A, the display-casing having sight-openings in its vertical portion, the tubular shaft, and the revolving core operated by the movement of said platform, of a series of guide-rollers arranged parallel to the periphery of said core, an endless tape or ribbon carrying the advertisements or displays, said ribbon looped about the core and passed about the guide-rollers, its object face adjacent the sight-openings, all arranged substantially as shown and described.

4. In an advertisement or display device, essentially as described, the combination, with the casing having the sight-openings, a revolving core mounted within said casing, and means for operating said core, substantially as shown and described, of a series of guide-rollers arranged between said core and the vertical wall of the casing, the tape or ribbon carrying the advertisements or displays, said ribbon looped about said core, its free portion passed between the outer faces of said guide-rollers and the vertical wall of the casing, and a tension device for normally pressing a portion of the tape against the revolving core, substantially as and for the purpose described.

5. The combination, with the centrally-apertured base or foot piece B, provided with a socket B', and the revolving platform A, having a depending centrally-apertured lug fitting said socket and provided with an upwardly non-circular projection a', of the display-body consisting of a column C^2 and a casing C^3, having a series of sight-openings 3 in its rim 2, mounted on said platform, a tubular shaft journaled in said column, having a non-circular recess in its lower end engaging the projection a' and provided with a non-circular socket at its upper end, a core having a tubular hub mounted in the casing C^3, said hub having a non-circular projection engaging the said socket, a series of guide-rollers arranged between said core and rim 2, an endless tape or ribbon having the advertisements or displays thereon, said ribbon looped about said core and passed around the said series of guide-rollers, a cap-plate arranged over said casing, and a tie-rod passed through the several central apertures and secured by nuts at its upper and lower ends, all arranged substantially as shown, and for the purpose described.

6. The combination, with the circular casing having display-openings in its vertical wall, a series of guide-rollers arranged within and parallel with said side wall, said rollers journaled at their lower ends in the base of said casing, and a detachable cover or disk arranged over said guide-rollers, the upper ends of said rollers journaled in said disk, said disk provided with an elongated opening f', of a central core journaled in said disk cen-

trally of the guide-rollers, an endless tape having the advertisements or displays thereon looped over said core and about the guide-rollers, and a tension device for said tape, consisting of the pulley 7^a, journaled on a shaft 7^b, pivoted at its lower end to the base of the casing, its upper end guided in the seat f' of the disk F, and a spring G, secured to said disk to normally press said roller toward the core, and means for operating said core, substantially as shown and described.

ANDREW DAHLSTROM.

Witnesses:
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LON B. WINSOR.