

E. RHODES, W. RHODES, J. G. HIRST, L. PARKER & J. M. TAVERNOR.
 APPARATUS FOR DISPLAYING ADVERTISEMENTS.

APPLICATION FILED NOV. 20, 1908.

930,797.

Patented Aug. 10, 1909.

2 SHEETS—SHEET 1.

Fig. 1

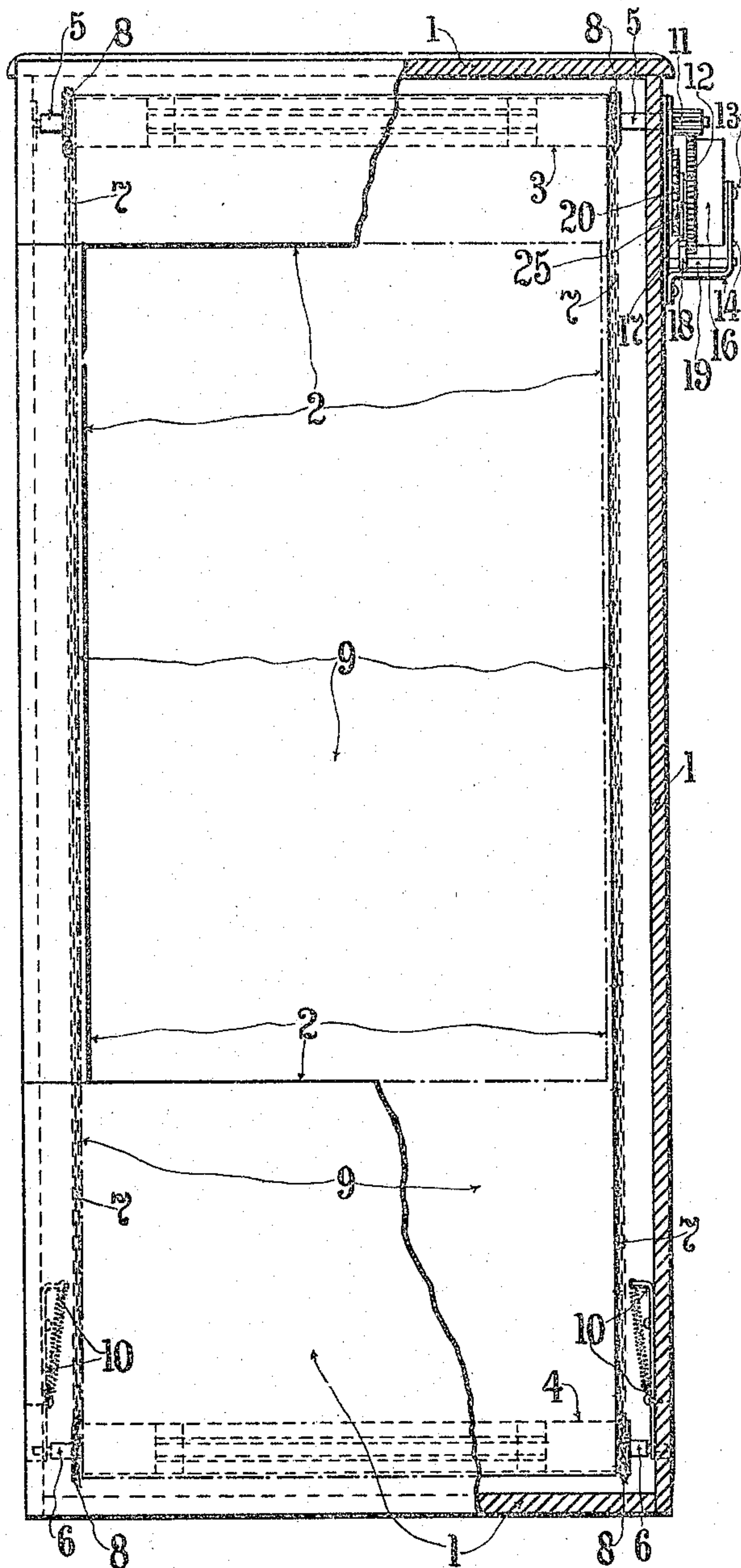
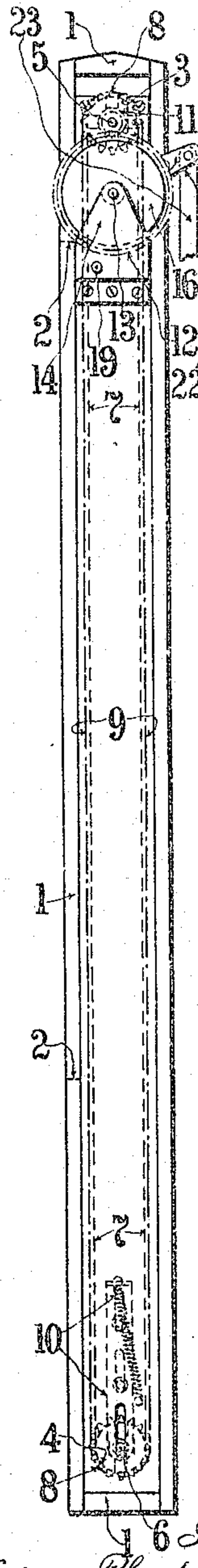


Fig. 2



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Fig. 3

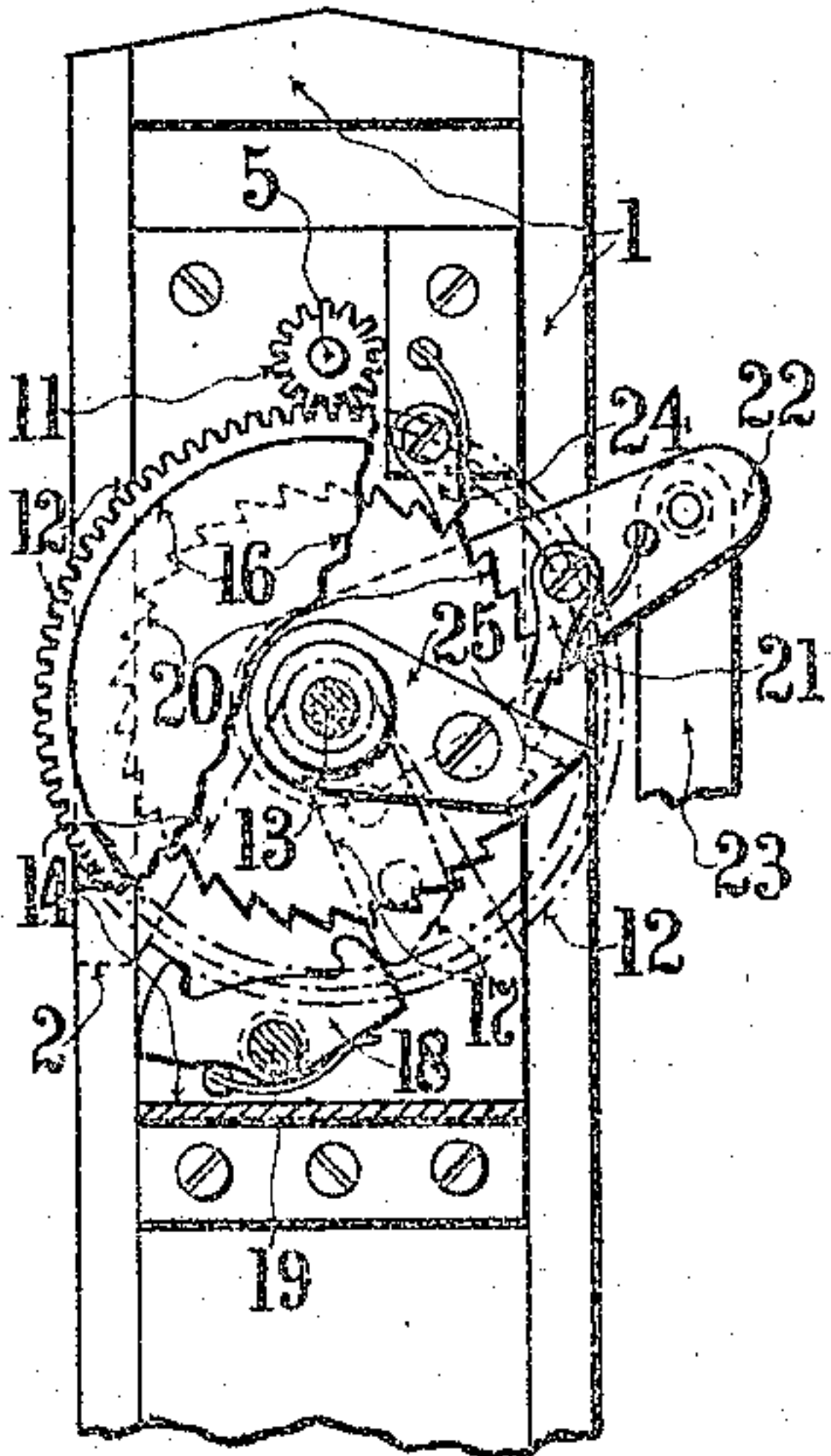


Fig. 4

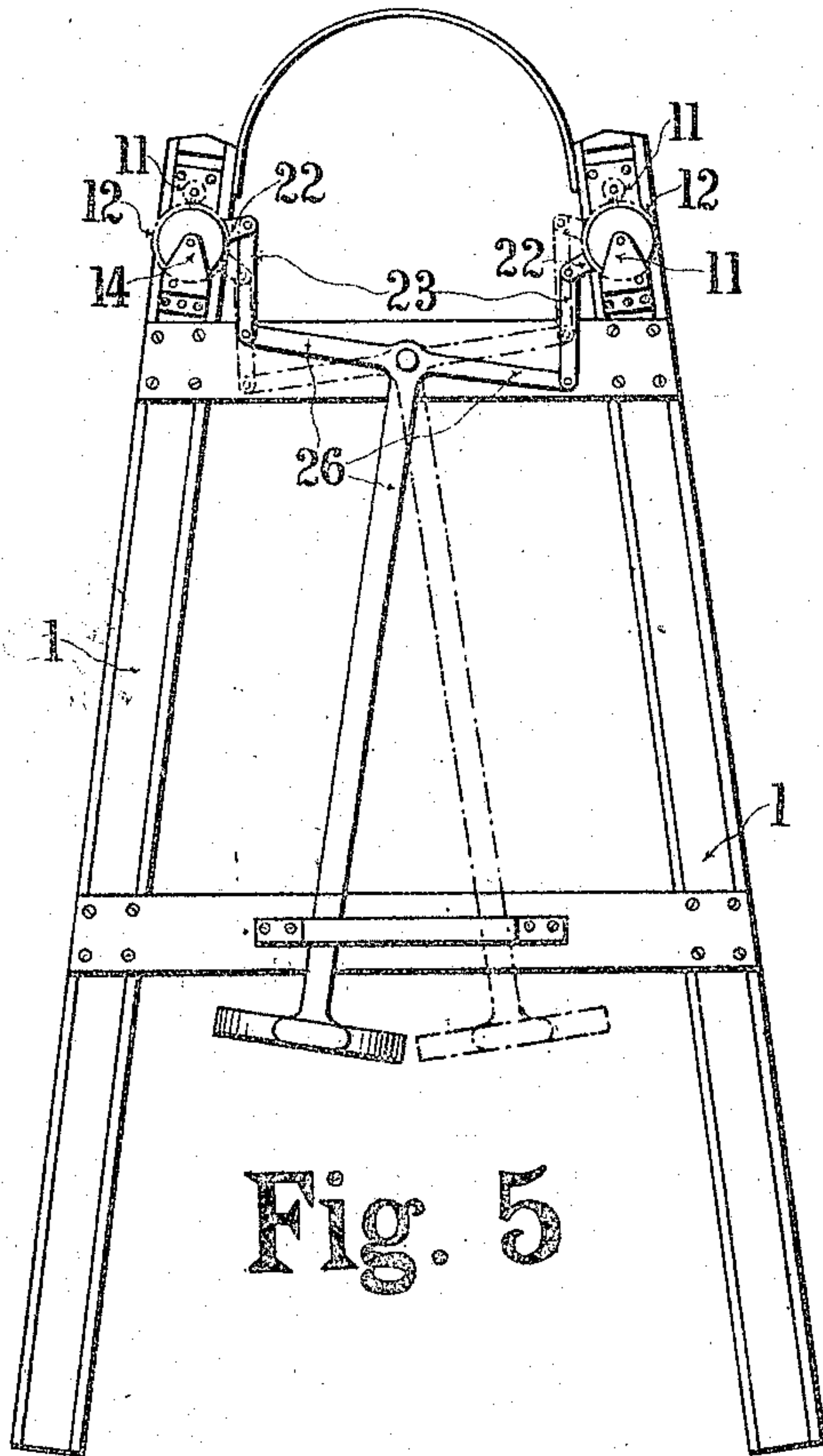
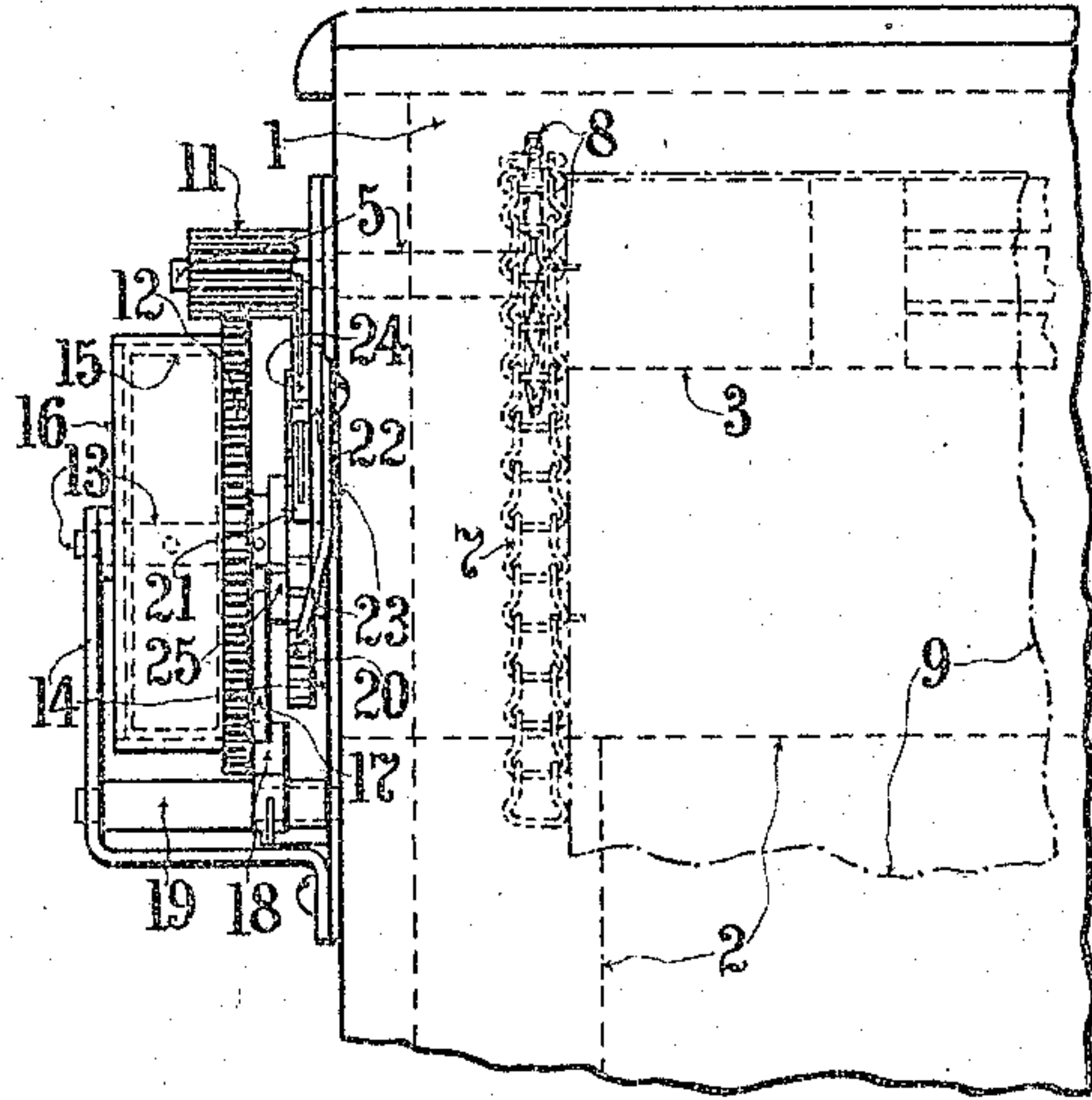


Fig. 5

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UNITED STATES PATENT OFFICE.

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APPARATUS FOR DISPLAYING ADVERTISEMENTS.

No. 930,797

Specification of Letters Patent.

Patented Aug. 10, 1909.

Application filed November 20, 1908. Serial No. 463,538.

To all whom it may concern:

Be it known that we, EDGAR RHODES, WALTER RHODES, JOHN GEORGE HIRST, SAMUEL PARKER, and JOHN MONTGOMERY TAVERNOR, residing, respectively, at Scholes, near Leeds, at Leeds, at Kirkstall, near Leeds, at Pudsey, near Leeds, and at Leeds, all in the county of York, England, and all subjects of the King of Great Britain, have invented a certain new and useful Apparatus for Displaying Advertisements, and of which the following is a specification.

This invention relates to a device, as hereinafter described, to be used as a sandwich board for displaying a number of advertisements in succession.

The device, according to this invention, consists of a casing in which are mounted two or more rollers carrying an endless belt or band provided with a number of advertisements to be displayed, which rollers are driven so as to cause the endless band to be traveled intermittently and thus display the advertisements in succession at the face or exhibition side of the casing, the desired periodic movement of the endless band being effected by intermittently rotating one of the rollers through the medium of gear wheels driven by a coiled-spring, said spring being wound up through the medium of a ratchet-wheel mechanism actuated by the leg or walking-action of the person carrying the device, while a double-pawl or escapement mechanism is provided for automatically releasing the spring by which the rotation of the gear wheels is effected.

Two or more of the above described casings may be carried by a single person, the leg-action of the latter being employed to actuate the mechanism of all the devices simultaneously.

In order that our invention may be clearly understood, we will proceed to describe the same with reference to the example of construction shown in the accompanying drawings, in which similar numbers of reference indicate like parts in all the figures; wherein:—

Figures 1 and 2 are respectively a part sectional front elevation and a side elevation of a sandwich board device constructed according to our invention. Figs. 3 and 4 are respectively a part sectional side elevation and a back elevation of a portion of the

same device, drawn to an enlarged scale; and Fig. 5 is a side elevation, drawn to a reduced scale, showing two of the devices combined and fitted with a single leg-operated lever adapted to actuate the two mechanisms simultaneously.

In the drawings, and particularly with reference to Figs. 1 to 4, the device consists of a rectangular vertical casing 1 having an aperture 2 formed in the front face thereof and being provided with upper and lower rollers 3, 4 respectively mounted on shafts 5, 6, which rollers 3, 4 are geared together by chains 7 passing around chain-wheels 8 and carry an endless band 9 for the reception of a number of advertisements, the tension of the chains 7 and endless band 9 being maintained by mounting the lower roller shaft 6 in spring-retained bearings 10. Outside the casing 1 and on one end of the shaft 5 of the upper roller 3 is fixed a spur pinion 11 which gears with a spur wheel 12 loosely mounted on an independent shaft 13 carried by a fixed bracket 14, to which shaft 13 is attached the inner end of a coiled spring 15 situated within a box 16 attached to the loosely mounted spur wheel 12, to which box 16 the other or outer end of the spring 15 is attached. The spur wheel 12 is provided with a stop 17 which normally rests against or engages with a double-pawl 18 pivoted on a stud 19 carried by the bracket 14, this double pawl 18 acting as an escapement while on the shaft 13 is fixed a ratchet-wheel 20 adapted to be rotated, so as to wind up the spring 15, by a pawl 21 carried on an arm 22 pivoted upon the shaft 13 through the medium of a rod 23 actuated by the leg or walking-action of the person carrying the device, a stationary pawl 24 being provided for the purpose of preventing the backward rotation of the ratchet-wheel 20 between the actuating strokes of the arm 22. This ratchet-wheel 20 is formed with a projection 25 adapted at each revolution of the wheel to actuate the double-pawl 18 so as to release the spur wheel 12 and allow it to be rotated, by the action of the coiled spring 15, through a single revolution, whereby the spur pinion 11 is revolved a number of times and with it the chain-connected rollers 3, 4, the endless band 9 being thereby caused to travel automatically for a distance equal to the length of a single

advertisement. In this way, the coiled spring 15 is wound up by the leg or walking-action of the person carrying the device and automatically and intermittently released by the double-pawl 18 at regular intervals of time, so that the advertisements are displayed in succession through the aperture 2 at the face or exhibition side of the casing 1.

At Fig. 5, two of the above described casings are shown combined so as to be carried by a single person, the leg-action of the latter being employed to actuate the mechanism of both devices simultaneously, through the medium of a double-ended pivoted bell-crank lever 26 whose lower end is bifurcated so as to engage one leg of the person carrying the said device.

What we claim as our invention and desire to secure by Letters Patent is:—

1. A device to be used as a sandwich board for displaying a number of advertisements in succession, consisting in a casing, rollers, an endless band passing over said rollers and provided with a plurality of advertisements, and means adapted to be actuated by the walking movement of a person carrying the device for intermittently shifting the endless band to cause the advertisements to be displayed in succession at the exhibition side of the casing.

2. A device to be used as a sandwich board for displaying a number of advertisements in succession, consisting in a casing, rollers, an endless band passing over said rollers and provided with a plurality of advertisements, a gear wheel connected to one of the said rollers, a second gear wheel meshing with the aforesaid gear wheel, a coiled spring adapted to turn the said second gear wheel, a ratchet wheel mechanism adapted to be actuated by the walking movement of a person carrying the device for winding said coiled spring and an escapement mechanism for automatically and periodically releasing the coiled spring so as to cause the endless band to be shifted intermittently

and so display the advertisements in succession at the exhibition side of the casing.

3. A device to be used as a sandwich board for displaying a number of advertisements in succession, consisting of a rectangular vertical casing having an aperture formed in the front face thereof, a shaft journaled in the upper portion of said frame, a roller thereon, a shaft journaled in the lower portion of said frame, a roller thereon, chain wheels on the said rollers, chains passing over said chain wheels, an endless band carried by said chains and provided with a plurality of advertisements, a gear wheel fixed on the upper roller shaft, a second gear wheel meshing with the aforesaid gear wheel, a coiled spring for turning said second gear wheel, a ratchet wheel mechanism adapted to be actuated by the walking movement of a person carrying the device for winding said coiled spring, and an escapement mechanism for automatically and periodically releasing the spring by which the gear wheels are rotated to cause the endless band to be shifted intermittently and so display the advertisements in succession at the exhibition side of the casing.

4. An apparatus for displaying advertisements comprising a casing, an endless belt therein adapted to carry a plurality of advertisements, devices around which the said endless belt travels, means for intermittently actuating the said devices to shift the belt and successively display the advertisements, and means adapted to be actuated by the walking movement of a person carrying the apparatus to render the aforesaid means operative.

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