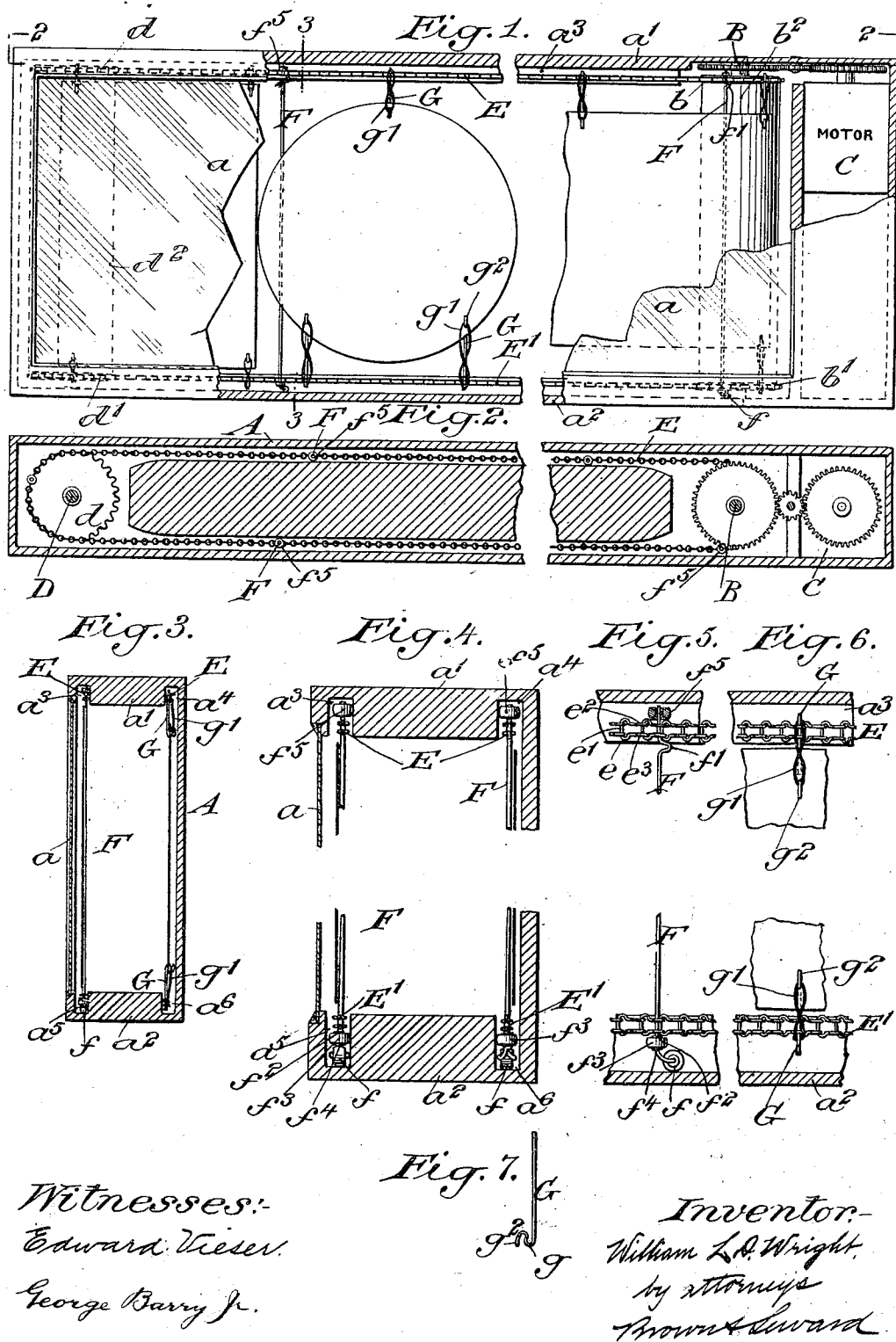


W. L. D. WRIGHT.
TRAVELING ADVERTISING DEVICE.

(Application filed Aug. 14, 1900.)

(No Model.)



UNITED STATES PATENT OFFICE.

WILLIAM L. D. WRIGHT, OF NEW YORK, N. Y.

TRAVELING ADVERTISING DEVICE.

SPECIFICATION forming part of Letters Patent No. 666,727, dated January 29, 1901.

Application filed August 14, 1900. Serial No. 26,827. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. D. WRIGHT, a citizen of the United States, and a resident of the borough of Brooklyn, in the city and State of New York, have invented a new and useful Improvement in Traveling Advertising Devices, of which the following is a specification.

My invention relates to an improvement in traveling advertising devices, and has for one object to provide a device in which two endless carrying-chains are driven in some suitable manner, the said carrying-chains having removably secured thereto any number of changeable advertising-sheets, the said sheets being secured to the chains by devices removable from the sheets and the chains, so that the sheets may be attached to the chains at any desired point or points.

A further object is to provide a very simple and effective means for supporting the chains both vertically and laterally, whereby the device may be tilted to any desired angle without interfering with the movement of the chains, and, furthermore, permitting the chains to run around their sprockets with sufficient slack to enable the chains to be driven with a very slight amount of power.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Figure 1 represents a front view of my improved traveling advertising device, portions of the same being broken away to more clearly illustrate the interior structure of the device. Fig. 2 is a transverse horizontal section taken in the plane of the line 2 2 of Fig. 1. Fig. 3 is a transverse vertical section taken in the plane of the line 3 3 of Fig. 1. Fig. 4 is a considerably-enlarged detail vertical cross-section through the upper and lower portions of the device. Fig. 5 is a detail view, partially in section, showing the manner of supporting the upper and lower chains vertically and laterally. Fig. 6 is another detail view showing the manner of securing the advertising-sheet to the upper and lower chains by the devices which are separate from the said sheet and chains, and Fig. 7 is a detail view of the pin portion of the removable device for securing the sheet to the chain.

A designates a frame or casing which may

be made in sizes to suit different requirements. The front a of the casing A is preferably made of transparent glass, so as to protect the parts of the device within the casing, but at the same time exhibit the advertising-sheets therethrough. A vertically-disposed drive-shaft B is mounted in the top a' and bottom a^2 of the casing, near one end thereof, which shaft is provided with upper and lower sprockets $b b'$, located near the top and bottom of the casing. This shaft may be driven at the required speed from any source of power, that shown herein being a motor, represented conventionally at C, located within the casing A and having a geared connection with the said shaft B. A vertically-disposed shaft D is mounted in the top a' and bottom a^2 of the casing, near the other end thereof, which shaft is provided with upper and lower sprockets $d d'$, located near the top and bottom of the casing. An upper endless sprocket-chain E is caused to travel around the sprockets b and d , and a lower endless sprocket-chain E' is caused to travel around the sprockets b' and d' . These sprocket-chains are preferably composed of a series of double links e of general U-shaped form, the bottom e' of each link being engaged by two eyes $e^2 e^3$ at the ends of the branches of the next succeeding link. These eyes $e^2 e^3$ are of sufficient size to also permit the insertion therethrough of a small pin or rod.

The top a' of the casing is provided near its front and rear on its interior with grooves $a^3 a^4$, within which the upper endless chain E is caused to travel. The bottom a^2 of the casing is provided on its interior near the front and rear with similar grooves $a^5 a^6$, in which the lower endless chain E' travels.

The chains E E' are supported vertically and laterally in the following manner: A small rod F extends through the eyes $e^2 e^3$ in one of the links of the upper chain and through the eyes $e^2 e^3$ in the corresponding link of the lower chain. This rod F is provided at its lower end with a small traction-wheel or caster f , which travels along the bottom of the grooves $a^5 a^6$ within the casing as the chains are driven. The rod F is provided with a shoulder f' just beneath the upper chain E for supporting the upper chain in a vertical direction and with a shoulder f^2 just beneath

the lower chain E' for supporting the lower chain in a vertical direction. The shoulder f' is preferably formed by doubling the rod F upon itself, and the shoulder f^2 is formed by a washer on the said rod. An antifriction-roller f^3 is mounted on the vertical portion of the rod F, between the shoulder f^2 and a second shoulder f^4 on the rod, which antifriction-roller travels along in engagement with one or the other of the walls of the grooves $a^5 a^6$, as the case may be, for supporting the lower chain in a lateral direction. A second antifriction-roller f^5 is mounted upon the upper end of the rod F above the upper chain E, which roller is caused to engage either the inner or outer walls, as the case may be, of the grooves $a^3 a^4$ for supporting the upper chain E in a lateral direction.

The traction-wheel f is arranged to trail by bending the lower portion of the rod F at an angle to its main portion. By thus causing the traction-wheel to trail I am enabled to keep the double portion f' of the rod F, which supports the upper chain, in a direction parallel with the chain, so as to prevent any undue friction as the chains pass around the sprockets on the shafts B and D.

The advertising sheet or sheets may be secured to the upper and lower chains in the following manner: A pin G is provided at one end with a double hook, the inner hook portion g being adapted to exert the pull on the sheet when the pin has been passed there-through. The pin G is made in different lengths, so as to reach from the top and bottom of different-sized sheets to the upper and lower chains. The pin is of a sufficient length to pass through the eyes $e^2 e^3$ in one of the links of the chain and project a slight distance above the chain. A retaining-band g' of some suitable material—such, for instance, as rubber—is caused to engage the outer portion g^2 of the double hook and also the end of the pin which projects through the chain, thus preventing unintentional removal of the pin from the chain. These devices for securing the sheets to the chains may be attached to the sheets at any desired points for holding the sheets securely without wrinkling the same.

I provide the drive-shaft B with a roller b^2 , extending between the upper and lower sprockets $b b'$, of substantially the same diameter, to provide a suitable rolling-surface, around which the sheets of advertising matter may be passed as the chains are driven. The idler-shaft D is similarly provided with a roller d^2 .

The device when constructed as above set forth may be tilted to any required angle without interfering in any respect with the proper operation of the chains and their attached

parts. Furthermore, by the use of the required number of supporting-rods F, I am enabled to provide a device of great length and one in which the chains may be driven with the least amount of friction, for the reason that the chains do not have to be drawn taut to keep them in position. Furthermore, by my improved devices for securing the advertising-sheets to the chains the sheets may be of any required shape or size and yet be properly carried by the chains.

It is evident that changes might be resorted to in the form and arrangement of the several parts without departing from the spirit and scope of my invention. Hence I do not wish to limit myself strictly to the structure herein set forth; but

What I claim is—

1. In a traveling advertising device, a pair of endless chains for carrying advertising-sheets, sprockets around which the chains are caused to travel and means for supporting the chains vertically comprising a rod having a traction-wheel at its lower end and having shoulders upon which the chains rest, substantially as set forth.

2. In a traveling advertising device, a pair of endless chains for carrying the advertising-sheets, sprockets around which the chains are caused to travel and means for supporting the chains vertically and laterally comprising a rod passing through the chains, provided with shoulders upon which the chains rest, a traction-wheel at its lower end and antifriction-rollers at its upper and lower ends, substantially as set forth.

3. In a traveling advertising device, an endless chain, sprockets around which the chain is caused to pass, an advertising-sheet and means for securing the sheet to the chain comprising a pin passing through the chain and the sheet and a retaining-band engaging the ends of the pin, substantially as set forth.

4. In a traveling advertising device, an endless chain, the sprockets around which the chain is caused to pass, an advertising-sheet and means for securing the sheet to the chain comprising a pin having a double hook at one end, the body of the pin passing through the chain and the inner portion of the double hook supporting the sheet and a retaining-band engaged with the outward portion of the double hook and the free end of the pin, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 13th day of August, 1900.

WILLIAM L. D. WRIGHT.

Witnesses:

FREDK. HAYNES,
EDWARD VIESER.