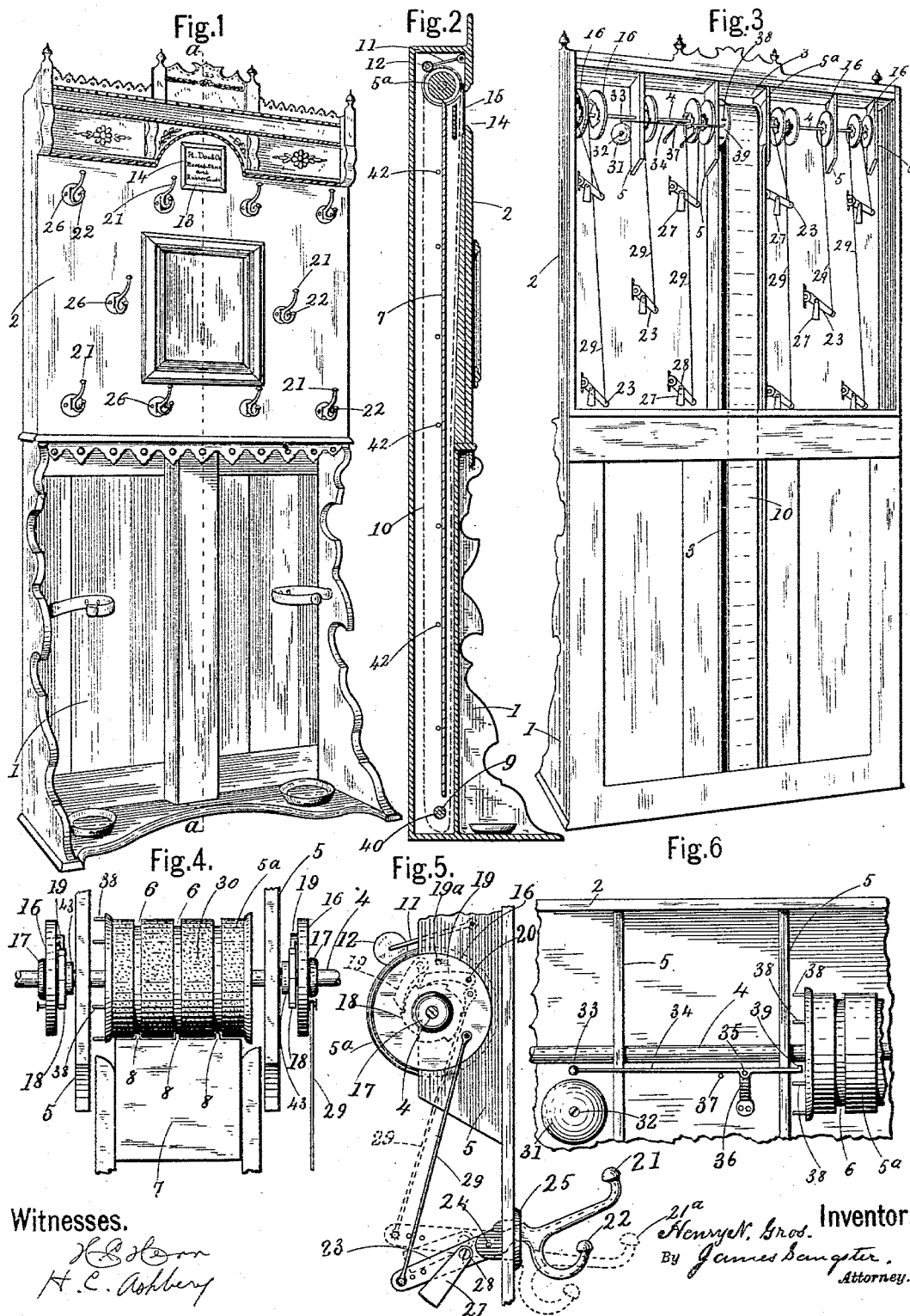


(No Model.)

H. N. GROS.
ADVERTISING DEVICE.

No. 531,679.

Patented Jan. 1, 1895.



Witnesses.

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UNITED STATES PATENT OFFICE.

HENRY N. GROS, OF NORTH TONAWANDA, NEW YORK.

ADVERTISING DEVICE.

SPECIFICATION forming part of Letters Patent No. 531,679, dated January 1, 1895.

Application filed October 20, 1894. Serial No. 526,440. (No model.)

To all whom it may concern:

Be it known that I, HENRY N. GROS, a citizen of the United States, residing at North Tonawanda, in the county of Niagara and State of New York, have invented certain new and useful Improvements in Advertising Devices, of which the following is a specification.

My invention relates to a new and improved advertising device and will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1, represents a front perspective view of a hat rack and umbrella stand, showing the pivoted hooks adapted to receive a hat or other article by which the device is operated, showing also a portion of the endless band carrying the advertisements. Fig. 2, represents a vertical section on or about line *a a*, Fig. 1. Fig. 3, is a back perspective view of the case, the back covering at the upper portion being omitted to show the interior mechanism. Fig. 4, represents an enlarged detached front elevation of the upper grooved roller which carries the endless advertising band, showing a portion of the shaft upon which said roller is mounted, showing also two of the supporting brackets carrying the shaft and two of the operating wheels and their operating mechanism. Fig. 5, represents an enlarged detached side elevation of a portion of the supporting case, showing a side view of one of the operating disks and mechanism for operating it, showing also a portion of the side of the roller upon which the endless band is mounted and the roller for keeping the endless band to its supporting roller. Fig. 6, is a rear elevation of a portion of the supporting case, showing the mechanism for operating the bell.

Referring to the drawings in detail, I have shown an umbrella stand and hat rack as a suitable means for illustrating my invention. The supporting case is preferably made of wood as the most suitable material, but any other material may be used and it may be of any suitable or attractive design. The lower portion 1, of the case, I have in this instance shown in the form of an umbrella stand. The upper portion 2, carries the mechanism upon which hats, or other articles may be hung for

operating the advertising band as will appear farther on. Extending down from the top of the case to the bottom is a long narrow opening 3, see Fig. 3, where this opening is shown. At the top of the opening 3, is mounted a shaft 4, extending transversely through the opening 3, and each way through supporting brackets 5, to each inner side of the case and is mounted in said supporting brackets so as to turn easily therein.

On the shaft 4, within the opening 3, is mounted a flanged roller 5^a. It is rigidly secured to said shaft and is provided with a series of grooves 6. See Fig. 4. Extending down from near the bottom of the roller 5^a, to near the bottom of the case is a partition 7, see Figs. 2 and 4, where this partition is shown. At the top of the partition 7, is a series of upward extending pieces 8, which project into the grooves 6, the object of which will appear farther on, and near or below the bottom of the partition is a small roller 9, see Fig. 2, where this roller is shown in section. On the flanged roller 5^a, is mounted an endless band of ribbon, of paper or other flexible material 10. See Figs. 2 and 3. In Fig. 2, this flexible band is shown by dotted lines. It passes over the roller 5^a, and down around the roller 9, substantially as shown in Fig. 2.

The object of the projections 8, which extend into the grooves 6, in the roller 5^a, is to prevent the flexible endless band from being drawn up to or around the roller 5^a, while in operation.

At the top of the roller 5^a, is mounted on a light supporting frame 11, which is pivoted to the inner front portion of the case, a small roller 12, which rests on the endless band at the top of said roller to prevent it from slipping thereon. On the face of the endless band is a series of advertisements, 13, see the front view of the case, (Figs. 1 and 2) where an opening 14, covered by a glass 15, is shown, through which these advertisements may be seen as they are made to pass said opening as will more clearly hereinafter appear.

A series of disks 16, are mounted loosely on the shaft 4, so as to turn easily thereon, and are each kept to their places on the shaft 4, by means of a collar 17, on one side and a ratchet wheel 18, on the other side. The collars 17, and ratchet wheels 18, are rigidly se-

cured to the shaft 4, and turn with it. In this instance I have shown the ratchet wheels provided with six teeth but they may have more or less than the number shown.

- 5 The number of disks 16, used should correspond with the number of hooks upon which articles are hung. In this instance I have shown ten pivoted hooks. Consequently there should be ten disks 16, one for each hook.
- 10 Each disk 16, is provided with a pawl 19, loosely pivoted thereto by a pin 20, adapted to engage with the teeth in the ratchet wheel 18, see Fig. 5, where a side elevation of one of these ratchet wheels 18, and pivoted pawls 19, is shown by dotted lines. Another view of these ratchet wheels and pawls is shown in Fig. 4. To prevent the pawls from being thrown up, or back, or out of place, when moving the case, a pin 19^a, is placed above them.
- 20 In Fig. 1, 21 represents the pivoted hooks upon which hats or other articles are hung. For a more clear representation of these hooks and their construction (which with their several parts are all constructed alike and a description of one will answer for all) reference is had to the enlarged view, Fig. 5, in which 21, represents the hook made in the usual form with a supplementary hook 22. It is provided with a rearwardly extending portion 23, and is loosely pivoted by a pin 24 to a holding piece 25, which extends through from the front of the supporting case, to which it is secured at the front of the case, by screws 26. See Fig. 1. It will be seen that as the hook 25 passes through an opening through the holding piece 25, its swinging movement will be limited by the length of the opening. The portion 23, is provided with an adjustable weight 27, (see Fig. 5) which is made adjustable by swinging it back or forth on its pivoted screw 28, and when adjusted to the desired point the same may be tightened. The counterweights and rearward extending portions 23, are designed to be heavy enough to keep the hooks up in their normal position as shown in said Fig. 5. When a hat or other article of sufficient weight is hung on a hook 21 or 22, the hook is brought down to the position shown by the dotted lines 21^a, in said Fig. 5, the effect of which will appear farther on. To the portion 23, of each hook, (see Fig. 5) is pivoted a connecting-rod 29, having its upper end pivoted to the loose disk 16. The roller 5^a, to prevent the endless advertising band from slipping thereon, is provided with a coating of sand 30, (see Fig. 4) on its periphery, but felt, woolen cloth, india rubber, or other equivalent material may be used for the same purpose.
- 60 From the above description it will be seen that every time, any hook of the series shown, is moved from its normal position to the position shown by the dotted lines 21^a, (see Fig. 5) its connecting rod 29, will cause the pawl, on the disk connected with it, to turn the disk one sixth of a revolution which is just sufficient (in this instance) to turn the roller 5^a,

and thereby move the endless band far enough to expose a different advertisement every time such movement of the hook is made. It will be understood that every time the hook is thus operated and moved down, it will be instantly brought up to its normal position the moment the force applied to it, or the article hung thereon is removed. There is also a bell connected with this device to give an alarm, or to attract attention, every time any article is hung upon any one, or more of the hooks. It will also be seen that every time each additional hook is thus weighted by any article hung thereon, the device will be operated, thereby exposing a new advertisement and giving an alarm, until all the hooks are full, and when one or more or all of the hooks are full, and the articles removed from one or more of them, any article of sufficient weight, will again cause them to operate.

For a more clear description of the bell reference is had to Fig. 6, where the bell and its operating parts are shown on an enlarged scale. The bell 31, is made in any well known way and is secured to its place in the usual manner by a screw 32. The hammer 33, is connected with an arm 34, pivoted by a pin 35, to a bracket 36. The longer side of the arm 34 being heavier than the shorter portion, a pin 37, prevents it from resting on the bell. Consequently the hammer does not touch the bell until it is lifted and dropped when the spring of the arm will be sufficient to allow the hammer to strike the bell and give an alarm.

The bell is operated by means of the roller 5, on the end of which, in this instance, there are six projecting pins 38, (see Fig. 6) and on the small end of the arm 34, is a hook portion 39, against which, every time the roller makes one sixth of a revolution, a pin 38, comes in contact with and operates the bell as the pin moves off from it.

In Fig. 2, I have shown the partition 7, as extending down to a point near the bottom of the case, but it may be made short as in Fig. 4, because it is not material whether it is long or short, and the roller 9, at the bottom of the partition may be made adjustable up or down by removing its pivotal pin 40, and the roller, and placing it opposite to any of the holes 42, and putting in place the pivotal pin upon which the roller turns. By this or other equivalent means, either a short or long endless band may be used.

I claim as my invention—

1. In an advertising device, the combination with a roller rigidly mounted on a shaft in suitable bearings within the supporting case, of an endless band carrying a series of advertisements adapted to be exposed to view one at a time through an opening in the front of said case as the endless band is moved the required distance by the partial rotation of said roller, a series of hooks pivoted to the front of the supporting case, each having an arm extending into the case, means connecting each arm with a crank disk mounted

loosely on the roller shaft and having a pivoted pawl for operating a ratchet wheel rigidly secured on said shaft, for moving the roller sufficiently to bring an advertisement 5 opposite the opening in the front of the case when a hat or weight of any kind is hung upon either one or more of said hooks, substantially as described.

2. In an advertising device, the combination with a supporting hat rack case having a glass covered opening in front, of a shaft located transversely within the case and mounted in suitable bearings, a grooved roller mounted rigidly on said shaft carrying an 15 endless band having a series of advertisements printed thereon, a roller mounted in a pivoted frame so as to rest on the endless band to prevent it from slipping on the grooved roller, a partition having toothed 20 projections extending into the grooves in the roller to keep the endless band free, a series of crank disks each loosely mounted on said shaft between a ratchet wheel and collar rigidly secured to the shaft so that the disks can 25 turn easily between them, a pivoted pawl on each loose disk adapted to engage with the ratchet wheel next to it, a corresponding series of pivoted hooks at the front of the hat rack case, each hook having an arm extending 30 into the case, and a connecting rod pivoted to each arm having its upper end pivoted to a loose disk, whereby when any one or more of the hooks are turned down by means of a weight or article hung thereon, the endless band will be moved and an advertisement 35 will be brought to view, substantially as described.

3. In an advertising device, the combination with a grooved roller mounted on a transverse shaft in suitable bearings in the supporting case of an advertising band mounted on said roller so that as the roller turns

the advertisements will pass and be visible through an opening in the front of said case, a series of pins projecting out from the end 45 of said roller, a bell secured to a bracket within the supporting case, a pivoted arm carrying the hammer having the extremity of the short end of the arm in the pathway of said pins when the roller rotates, a pivoted hook upon 50 which the article is hung to operate the device having an arm extending into the case and means connected with said arm and with a pawl and ratchet on the roller shaft for operating said roller and thereby sounding an 55 alarm and presenting an advertisement to view every time any article or weight is hung upon said hook, substantially as described.

4. In an advertising device, the combination with a roller rigidly mounted on a shaft 60 in suitable bearings within the supporting case, of an endless band carrying a series of advertisements adapted to be exposed to view one at a time, through an opening in the front of said case as the endless band is moved the 65 required distance by the partial rotation of said roller, a series of hooks pivoted to the front of the supporting case, each having an arm extending into the case and provided with an adjusting weight, means connecting each 70 arm with a crank disk mounted loosely on the roller shaft and having a pivoted pawl for operating a ratchet wheel rigidly secured on said shaft, for moving the roller sufficiently to bring an advertisement opposite the opening in the front of the case when a hat or 75 weight of any kind is hung upon either one or more of said hooks, substantially as described.

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Witnesses:

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