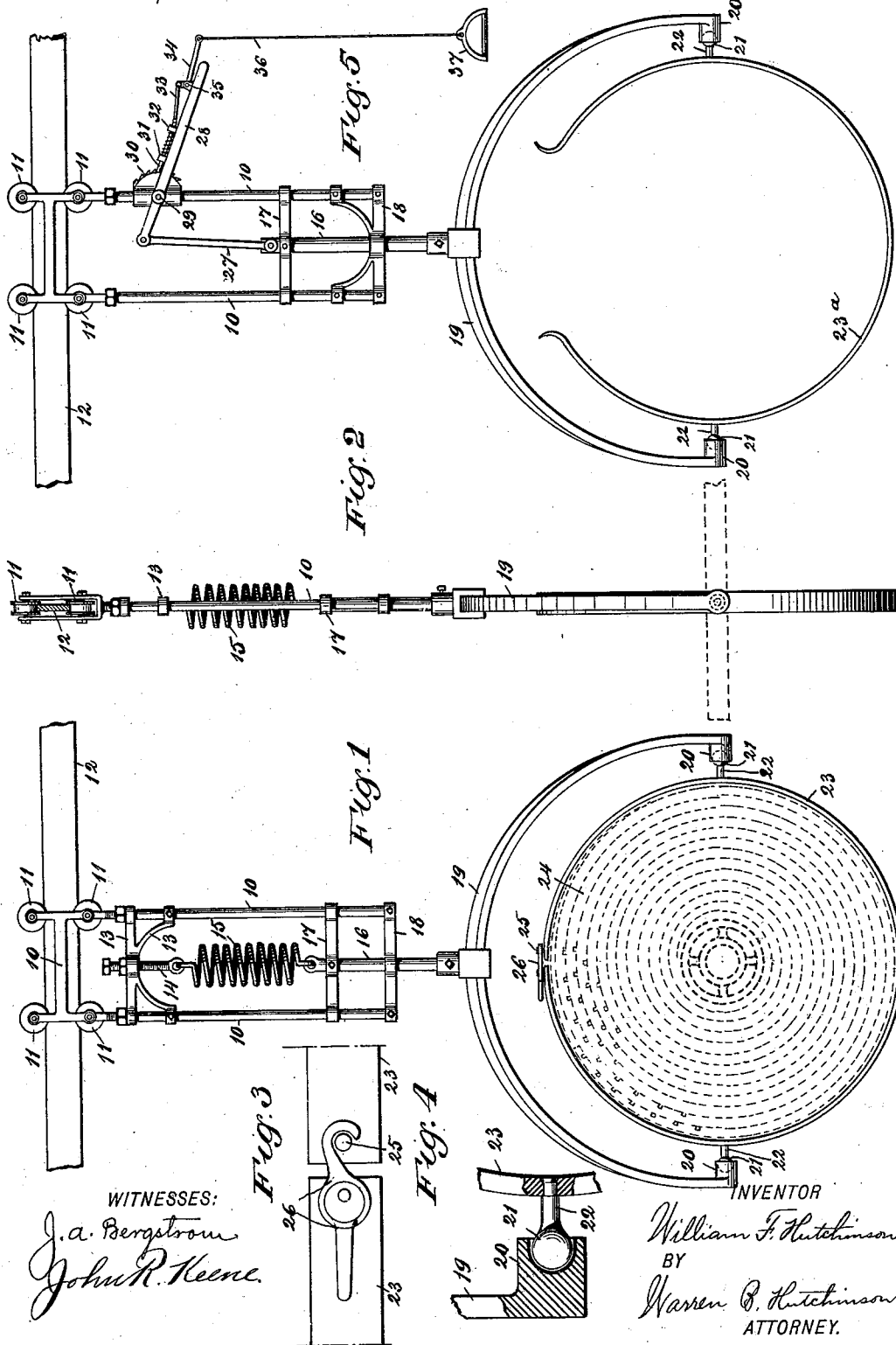


(No Model.)

W. F. HUTCHINSON.
CARRIER FOR MATCH COILS.

No. 550,072.

Patented Nov. 19, 1895.



WITNESSES:

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CARRIER FOR MATCH-COILS.

SPECIFICATION forming part of Letters Patent No. 550,072, dated November 19, 1895.

Application filed January 19, 1895. Serial No. 535,462. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. HUTCHINSON, of Passaic, in the county of Passaic and State of New Jersey, have invented a new and Improved Carrier for Match-Coils, of which the following is a full, clear, and exact description.

In the manufacture of matches it is a common practice to coil up a quantity of match-splints in a belt, and then the match-splints can be conveniently handled to dip their ends in the necessary preparation to tip them.

The object of my invention is to produce a very simple and convenient carrier by means of which coils of this kind may be readily transported from one part of a building to another, and also to produce a device which permits the coils to be held edgewise—that is, with their diameter in a vertical direction or with their diameter in a horizontal plane, as desired, these different positions being necessary in performing various operations on the splints while they are coiled.

A further object of my invention is to produce a device which holds the coils securely, which permits the coils to be easily raised or lowered without uncoiling, and which permits the coils to be readily inserted in or removed from the carrier.

To these ends my invention consists of certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of my improved carrier with a coil of splints supported by it. Fig. 2 is an edge view of the same. Fig. 3 is an enlarged detail view showing the fastening for the band which holds the coil together. Fig. 4 is a detail sectional view showing one of the pivots of the coil-band, and Fig. 5 is a side elevation of a modified form of the device.

In carrying out my invention I use a carriage 10, which is preferably in the form of a rectangular drop-frame, although the form may be varied as desired, and the carriage is provided with rollers or wheels 11, which run

on a track 12. All this construction is common, as carriages arranged in this way are used for a great variety of purposes, and therefore my invention is not confined to this particular carriage and track, but may be used with any ordinary overhead track and carriage system.

The carriage is provided with a suitable cross-brace 13, near the top, in which is held adjustably a bolt 14, to the lower end of which is secured a spiral spring 15, sufficiently heavy to support the hanger to be presently described and a coil of match-splints in the hanger. The lower end of the spring 15 is secured to the shank 16, which is provided with a guide-arm 17, the ends of which slide on the side rails of the carriage 10, and this shank 16 extends through the bottom guide-bar 18 of the carriage and is secured to the hanger 19, which is of an inverted-U shape and has at its ends inturned sockets 20, adapted to receive the bearing-balls 21 of the pivot-pins 22, which are rigidly secured to the band 23, which encircles and holds together an ordinary coil 24 of match-splints, the ends of the band, as illustrated, being fastened by a device comprising a pin 25 on one end of the band and a cam-hook 26 on the opposite end of the band.

It will be understood that any suitable device may be used for fastening the ends of the band 23 firmly together, and it will also be seen that various devices may be employed for pivoting the band and the coil which it carries in the hanger 19 without departing from the principle of my invention.

The hanger 19, as illustrated, is of spring material which is stiff enough to cause the hanger to hold its shape, but which permits the ends of the hanger to be sprung apart, so as to remove the sockets 20 from the pins 22 when desired. I do not limit my invention, however, to a spring hanger, as any suitable hanger may be suspended from the shank 16 which has means for attachment to the encircling band 23.

When a coil 24 is to be transported from one place to another, the band 23 is fastened firmly around it, the hanger 19 is pulled down against the tension of the spring 15, and the pins 22 fastened with their balls 21 in the sock-

ets 20 of the hanger. The carrier may then be pushed along to any desired point, and when it is necessary the coil may be tipped on the pivot-pins 22, so as to bring its diameter into a horizontal position, and when in this position the coil may be pulled down against the tension of the spring 15, so as to dip the ends of the splints into any necessary preparation, and after this the coil may be turned into a vertical position, enabling any other necessary operations to be performed on it while it is in the carrier.

In Fig. 5 I have shown a modified form of the carrier which has a spring-band 23^a of sufficient stiffness to fasten a coil, the band being held in the hanger 19, as already described, and in this form of carrier the spring is dispensed and with the shank 16 is pivotally connected by a rod 27 with one end of a tilting lever 28, which is fulcrumed, as shown at 29, on the carriage 10, so as to move opposite a notched quadrant 30 on the carriage. The lever 28 is provided with the ordinary latch-bolt 31, which moves in guides 32 and is pressed by a spring into engagement with the quadrant, the rear end of the bolt connecting by a rod 33 with one end of a bell-crank lever 34, which is pivoted at its elbow, as shown at 35, on the lever 28 and has attached to its free end a pull-cord 36, which extends downward to a point where it may be conveniently reached, terminating in a handle 37. By pulling on the cord 36 the slide-bolt 32 is released from the quadrant 30, and then by letting up a little on the cord the hanger and the coil which it carries drop by gravity, and by still further releasing the drop-cord the spring-bolt engages the quadrant and prevents the hanger from dropping any farther.

It will be observed that with either form of carrier the coil may be very conveniently suspended or removed, and that it can be easily shifted from place to place by simply pushing the carriage along its track.

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

1. A device of the kind described, comprising an overhead carriage, a hanger movable up and down on the carriage, a compressible fastening band adapted to encircle and be temporarily secured to a match coil or similar package, and a detachable pivotal connection between the fastening band and the hanger, substantially as described.

2. The combination with the hanger, of the fastening band to encircle a match coil or package, a fastening device to compress the fastening band, and a detachable pivotal connection between the fastening band and the hanger, substantially as described.

3. A device of the kind described, comprising a suspended hanger mounted on a movable support, sockets at the lower ends of the hanger, and a compressible fastening band adapted to encircle and be temporarily secured to a match coil or similar package having pivot pins to enter the sockets, substantially as described.

4. A device of the kind described, comprising a spring-suspended hanger mounted on a movable overhead support, a compressible fastening band adapted to encircle and be temporarily secured to a match coil or similar package, and a pivotal detachable connection between the fastening band and the hanger, substantially as described.

5. A device of the kind described, comprising a hanger movable up and down on a traveling overhead support, sockets at the lower ends of the hanger, a compressible fastening band acting to tightly compress the material therein, and pivot pins secured to the band and provided with bearing balls to enter the sockets, substantially as described.

6. The combination, with the hanger having a shank supported by the spring and guided on the carriage, of a spring fastening band, and a detachable pivotal connection between the band and the hanger, substantially as described.

WILLIAM F. HUTCHINSON.

Witnesses:

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