

S. WRIGHT.
HOISTING DEVICE.
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959,677.

Patented May 31, 1910.

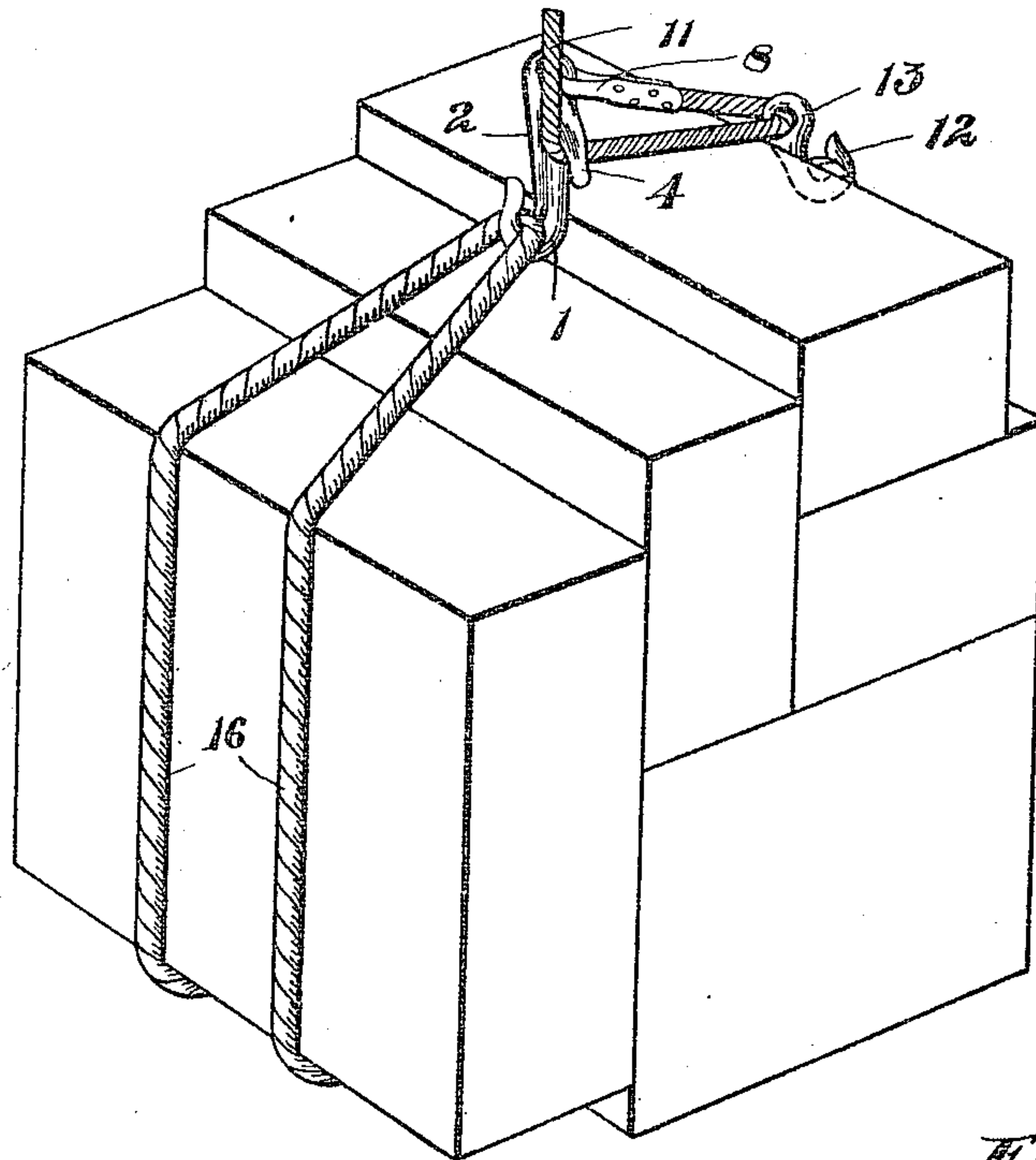


Fig. 1.

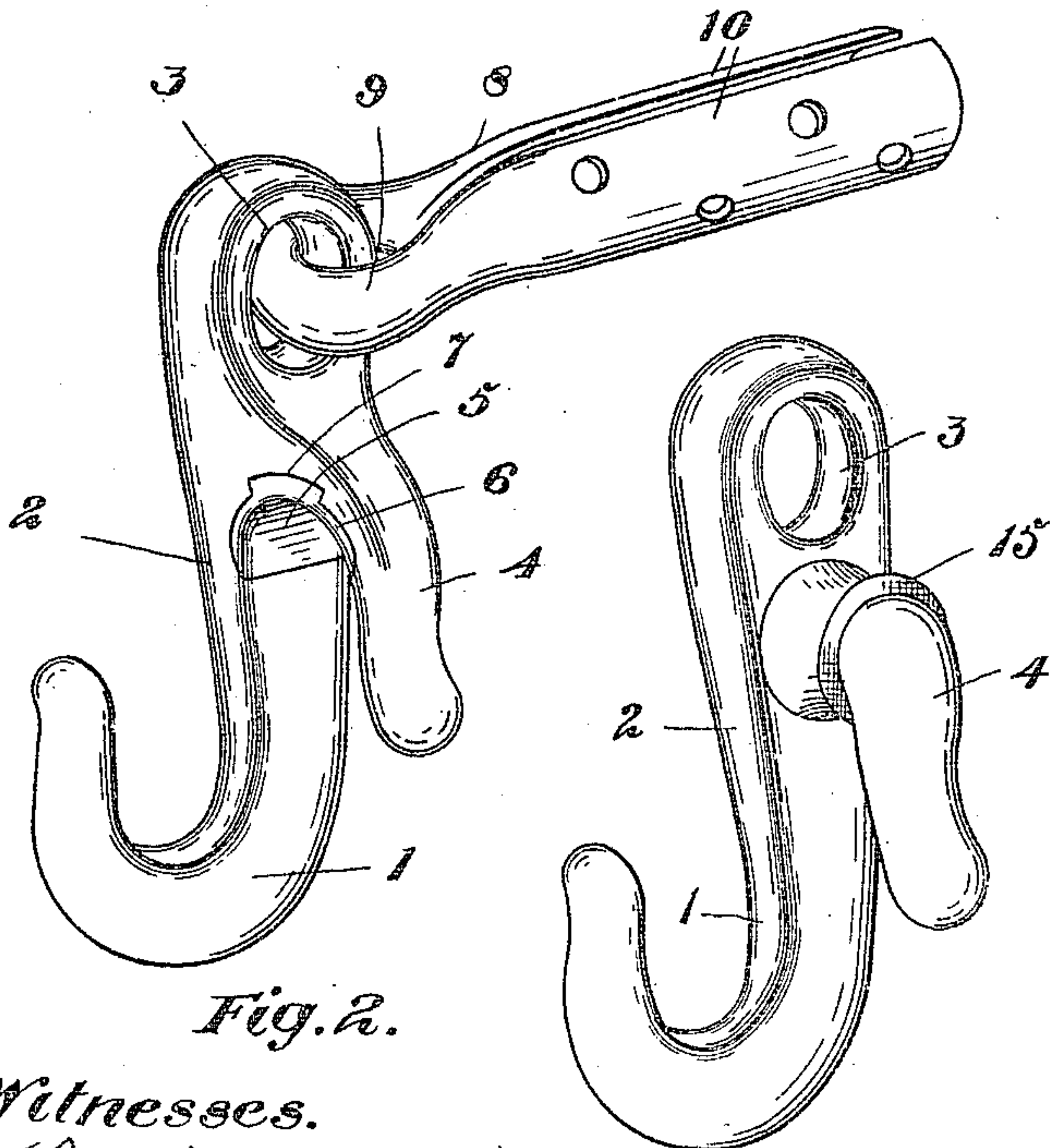


Fig. 2.

Fig. 3.

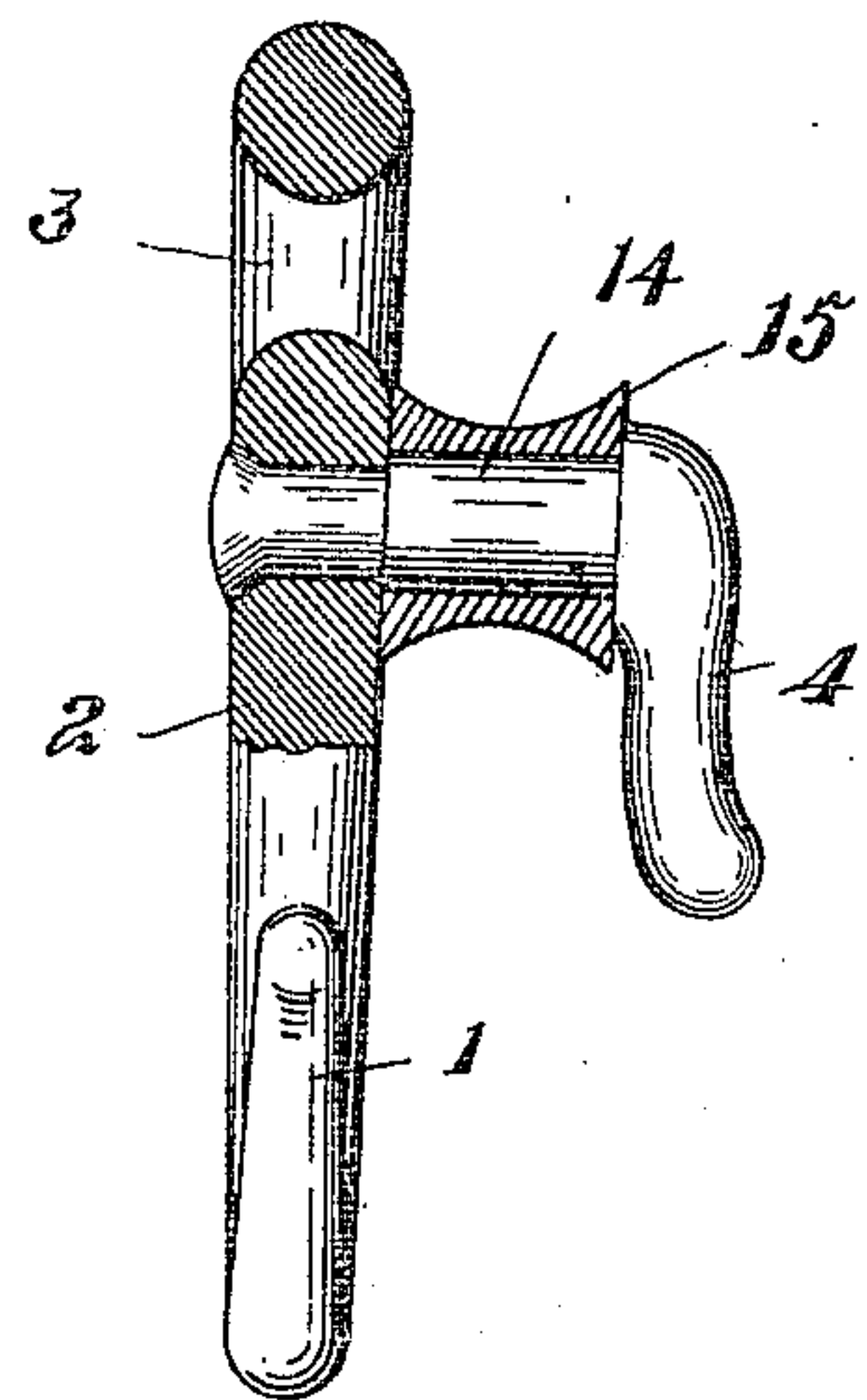


Fig. 4.

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UNITED STATES PATENT OFFICE.

SAMUEL WRIGHT, OF OWEN SOUND, ONTARIO, CANADA, ASSIGNOR OF TWO-THIRDS
TO JOHN SIDNEY, OF OWEN SOUND, CANADA.

HOISTING DEVICE.

959,677.

Specification of Letters Patent.

Patented May 31, 1910.

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To all whom it may concern:

Be it known that I, SAMUEL WRIGHT, a subject of the King of Great Britain, and resident of the town of Owen Sound, county of Grey, Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Hoisting Devices, of which the following is a specification.

The invention relates to improvements in hoisting devices, as described in the following specification and illustrated in the accompanying drawings that form part of the same.

The invention consists essentially in the novel formation of a hook and in the arrangement of a pennant and a supplementary hook, whereby the pennant drops away from the hook as soon as it is slackened, thereby immediately loosening the connections to the sling surrounding the package.

The objects of the invention are, to eliminate the operation of dipping the pennant through the sling and thus overcome the many troubles incident thereto, to permit the use of a steel cable pennant, and to provide a device which will automatically release the sling on the landing of the package.

In the drawings, Figure 1 is a perspective view of a package of freight suspended by my device. Fig. 2 is an enlarged perspective view of the hook and cable end. Fig. 3 is an enlarged perspective view of a slightly modified form of hook. Fig. 4 is a vertical sectional view through Fig. 3.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings, 1 is the main hoisting hook having a flattened straight shank portion 2 broadened out at the top end, said shank having an eye 3 formed in the upper end thereof. The back of the shank 2 is preferably straight from the lower curved portion of the hooked end to the upper and eye portion, and the outer side of said hook is perfectly flat. The back and side are formed perfectly flat and straight, so that in the event of the hook being laid lengthwise against a package there will be no projecting portion to mar or injure the same.

4 is an arm or hook member preferably forming part with the main hook 1 and extending from one side thereof immediately

below the eye 3 and projecting downwardly forming a crotch or arm pit 5.

6 is a block of anti-friction material, such as brass or other such metal fixedly secured in the dove-tailed recess 7 in said arm pit 5. The arch of the arm pit 5 is formed of a suitable dimension to accommodate the size of the hoisting cable used.

8 is a cable-end having the eye portion 9 hooked through the eye 3 of the main hook 1, said cable-end having the semi-cylindrical portions 10 between which the end of the cable pennant 11 is secured, said semi-cylindrical portions 10 having a plurality of holes therethrough, through which suitable pins are inserted to secure the cable in place.

12 is a hook having an eye portion 13 loosely surrounding the pennant 11.

In the form shown in Figs. 3 and 4, the arm or hook member 4 is formed of a separate piece from the main hook, and has a turned portion 14 upon which the grooved sheave 15 is rotatably supported. The said arm is rigidly secured to the main hook in any suitable manner, the sheave being held securely between the outer portion of said arm and said main hook.

In the use of this device, a sling 16 of hemp rope or other suitable material is passed around the package of freight, one end thereof being looped over the lower hooked end of the main hoisting hook and the other end being hooked into the hook 12. The cable pennant is then slipped under the arm 4 and the said pennant drawn taut. As the pennant is drawn taut it slips freely in the armpit 5 slipping over the anti-friction block 6 secured in said arm or turning the sheave 15 as the case may be, until all the slack in the cable and the sling is taken up. The package may then be lifted and swung wherever desired and when lifted will immediately center itself below the main hook and be carried on what is known as an even keel, to the place where it is desired to land the same. Immediately on the landing of the package, the pennant slacks away and the loop drops out of engagement with the crotch formed by the arm 4 and free of the hook, thus loosening the cable without overhauling the hoisting engine. The loosening of the pennant through its release from the hook member 4 allows sufficient slack so that the freight handlers may without any difficulty entirely release the

pennant from the sling. Thus loss of time through the binding or fouling of the pennant is also avoided. This feature is the most essential point of the invention.

5 What I claim as my invention is:—

1. In a hoisting device, a hook having an eye at the upper end and a laterally and downwardly projecting arm forming a crotch, a pennant having its end secured in
10 the eye of said hook and looped under said crotch arm, and a hook slidably arranged on the looped portion of said pennant.

2. In a hoisting device, a hook having an eye at the upper end and a laterally and
15 downwardly projecting arm forming a crotch, a metal loop having a semi-cylindrical ends adapted to receive a cable, a pennant having its end secured between the ends of said metal loop and looped under
20 said crotch arm, and a hook having its eye-end loosely encircling said pennant.

3. In a hoisting device, a hook having an eye at the upper end and a laterally and downwardly projecting arm forming a

crotch, an anti-friction device secured in the
25 crotch formed by the lateral arm of said hook, a pennant secured at the end to the eye of said hook and looped under said arm and engaging said anti-friction device, and a supplementary hook slidably secured to said
30 pennant.

4. In a hoisting device, a hook having an eye at the upper end and a laterally and downwardly projecting arm forming a
35 crotch, a roller journaled on the shoulder of said arm, a pennant secured at the end to the eye of said hook and looped under said arm and engaging said anti-friction device, and a supplementary hook slidably secured
40 to said pennant.

Signed at the town of Owen Sound, county of Grey, Province of Ontario, in the Dominion of Canada, this 22 day of January, 1909.

SAMUEL WRIGHT.

Witnesses:

A. G. SEYFERT,
JOHN SIDNEY.