

H. W. PATTEN.
 BARREL LIFTER.
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992,584.

Patented May 16, 1911.

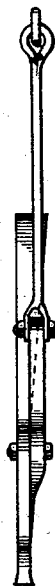
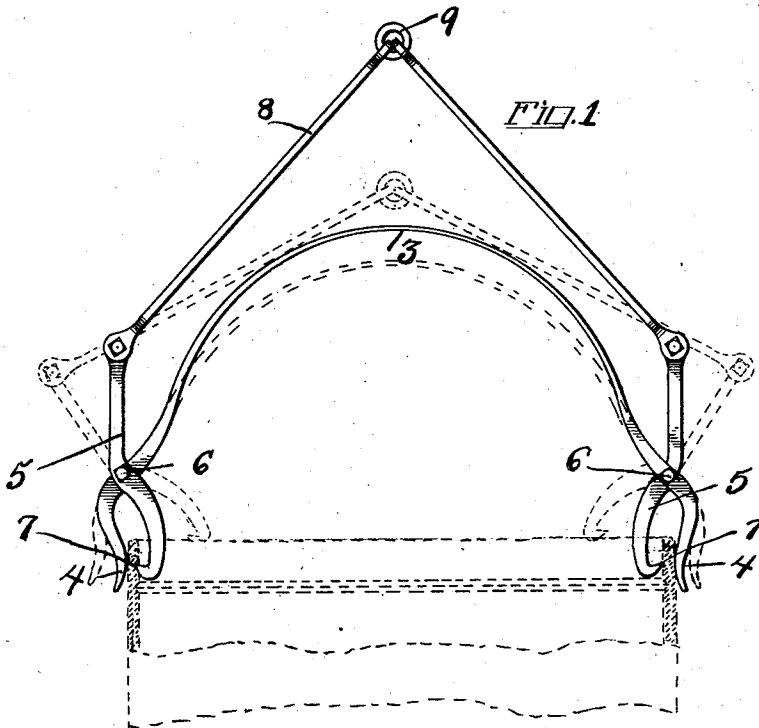


Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

HORACE W. PATTEN, OF LIMESTONE, MAINE.

BARREL-LIFTER.

992,584.

Specification of Letters Patent.

Patented May 16, 1911.

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To all whom it may concern:

Be it known that I, HORACE W. PATTEN, citizen of the United States, residing at Limestone, in the county of Aroostook and State of Maine, have invented new and useful Improvements in Barrel-Lifters, of which the following is a specification.

This invention relates to improvement in lifting devices for barrels, and the object of the invention is to provide a device of this character which is extremely simple in construction, thoroughly effective in operation and which may be readily adjusted to fit barrels of various sizes.

With the above and other objects in view, which will appear as the description progresses the invention resides in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawing there has been illustrated a simple and preferred embodiment of the invention and in which,

Figure 1 is a side elevation showing the device in full lines attached to the chime of a barrel and in dotted lines the device about to be applied to the chime of the barrel. Fig. 2 is a side elevation of the device.

This device is primarily intended for use in warehouses or the like and is adapted to be attached to a crane or conveyer and consists essentially in what may be a body portion and a securing portion. The body portion comprises a U-shaped resilient member 3 having its ends flattened and curved inwardly toward each other as designated by the numeral 4. The securing and gripping portion comprises a pair of gripping arms 5, which are pivotally connected with the flattened portion of the body 1 as at 6. These gripping members 5 have their lower extremities provided with oppositely disposed offset teeth 7 and by reference to Fig. 1 of the drawing it will be noted that these teeth project toward a flattened portion of the body. The opposite ends of the gripping members 5 are provided with suitable eyes and each of these eyes is adapted for the

reception of a suitable link 8. Both of these links have their free ends also provided with eyes and the links are connected together through the medium of a suitable ring member 9. This ring member 9 is adapted to be secured to the elevating and conveying device.

It is to be understood that the resilient body may be readily bent so as to adjust itself to the various sizes of barrels and when the flattened engaging faces 4 of the body are properly positioned upon the exterior of the barrel an upward pull upon the ring 9 will force the links toward each other, thus swinging the gripping members 5 upon their pivots 6 and causing their offset teeth to engage the chimes of the barrel. When the pull upon the ring 9 has been released, it will be apparent that the member 3 will spread, causing the members 5 to be automatically rotated upon the pivots 6 and thus disconnect the teeth 7 from the chimes of the barrel. It will be further noted that the greater the weight of the barrel, the tighter the said engaging teeth 7 will engage the said chime.

From the above description, taken in connection with the accompanying drawings it will be noted that I have provided a simple and effective device for the purpose intended and it is to be understood that while I have illustrated and described the preferred embodiment of the invention as it now appears to me, minor details of construction within the scope of the following claims may be resorted to if desired.

Having thus fully described the invention what is claimed as new is:

In a device for the purpose set forth, a body constructed of an arched resilient member having its opposite ends curved inwardly and flattened, the said ends through the medium of the arched resilient body being normally forced away from each other, a gripping arm pivotally connected with each of the flattened end portions of the arch, each of the said arms having its lower extremity formed with teeth disposed toward the

inwardly curved extremities of the arched member, pivoted links connected with each of the gripping arms, said links having their free ends provided with an eye, a ring connected with said eye, the said ring being positioned above the arched member so that when pressure upon the ring is released, the spring arch will automatically swing the

gripping arms away from the flattened ends of the said arch. 10

In testimony whereof I affix my signature in presence of two witnesses.

HORACE W. PATTEN.

Witnesses:

MARK T. PHAIR,
WILLIAM R. ROIX.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
