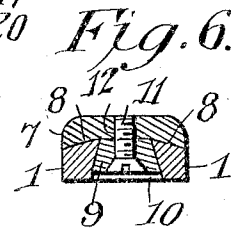
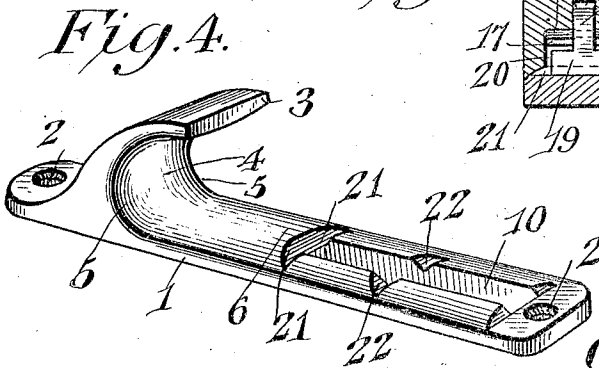
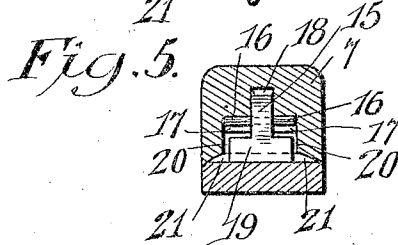
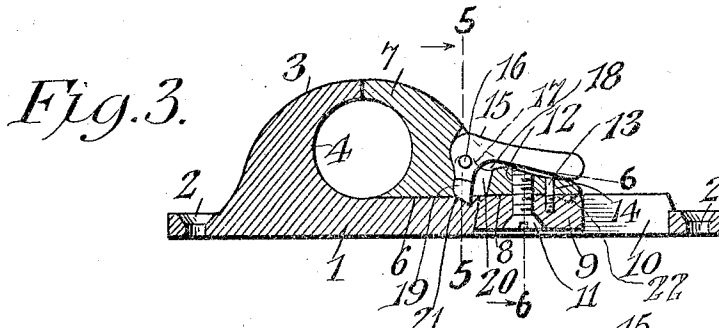
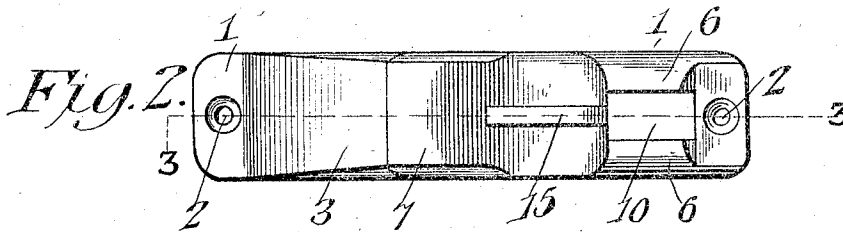
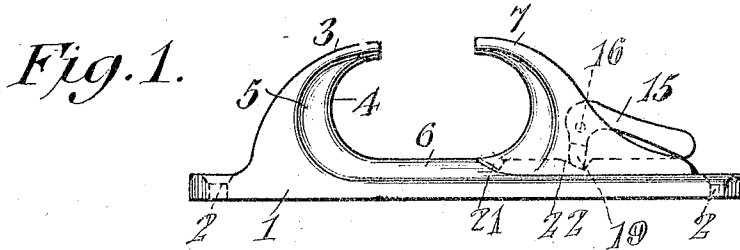


C. E. BERRY.
ADJUSTABLE CHOCK.
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1,011,726.

Patented Dec. 12, 1911



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ADJUSTABLE CHOCK.

1,011,726.

Specification of Letters Patent.

Patented Dec. 12, 1911.

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To all whom it may concern:

Be it known that I, CHARLES E. BERRY, a citizen of the United States, residing at Somerville, in the county of Middlesex and State of Massachusetts, have invented a new and useful Adjustable Chock, of which the following is a specification.

The invention relates to an adjustable chock for boats and other purposes.

The object of the present invention is to improve the construction of chocks for hawser ropes, cables, tow lines and the like, and to provide an adjustable chock, adapted to be readily arranged to form an open or closed chock, and capable of permitting a rope or cable to slide freely through it in either adjustment.

A further object of the invention is to provide a chock of this character, adapted when closed to effectually prevent a rope or cable from accidentally springing out of engagement with it, and capable when in such closed position of enabling a boat to be securely tied to a wharf, or other fixed object and located above the plane of the deck to which the chock is secured.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a side elevation of an adjustable chock, constructed in accordance with this invention, and shown open. Fig. 2 is a plan view, the chock being closed. Fig. 3 is a longitudinal sectional view on the line 3—3 of Fig. 2. Fig. 4 is a detail perspective view of the base plate or body. Fig. 5 is a transverse sectional view on the line 5—5 of Fig. 3. Fig. 6 is a similar view on the line 6—6 of Fig. 3.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

In the accompanying drawing in which is illustrated the preferred embodiment of the invention, 1 designates a substantially oblong base plate, having a flat lower face and provided at its ends with perforations

2 for the reception of bolts, or other suitable fastening means for securing the device to the deck or other portion of a boat. The plate or body 1, which is constructed of suitable metal, is provided at one end with a rigid jaw 3, extending upwardly from the base and inwardly over the same and preferably tapered, as clearly shown in Fig. 1 of the drawing. The outer face of the rigid integral jaw is convex, and the inner face 4 is flared at opposite sides at 5 to permit a rope or cable to run freely through the chock and to avoid presenting sharp edges to the rope or cable. The upper face 6 of the base plate is curved transversely to present a convex face, and mounted upon such convex face and coöperating with the fixed jaw is an adjustable jaw 7, tapered in side elevation and extending upwardly from the base plate and inwardly over the same in the direction of the fixed jaw 3. The base or body of the adjustable jaw 7 is enlarged, and its lower face is curved transversely to present a concave bottom face 8, which conforms to the configuration of the convex upper face 6 of the base plate, as clearly illustrated in Fig. 6 of the drawing. The adjustable jaw is slidable along the base to and from the fixed jaw, and it is adapted to be arranged contiguous to the same to positively confine a rope or cable in the chock, and at the same time permit the said rope or cable to slide freely through the device. When the chock is closed, it will be impossible for a rope, cable, or tow line to become accidentally disengaged from the device. When the adjustable jaw is open and spaced from the fixed jaw, as illustrated in Fig. 1 of the drawing, the device operates similar to an ordinary open chock, and a rope or cable may be readily introduced into and removed from the space between the jaws 3 and 7.

The adjustable jaw is slidably connected with the base by means of a dove-tailed slide 9, consisting of an oppositely beveled block fitted in and slidable along a longitudinal slot 10 of the base plate. The side walls of the slot are upwardly and inwardly inclined to correspond with the inclination of the side edges of the dove-tailed slide, which is secured to the bottom of the adjustable jaw by means of a screw 11, piercing the slide and engaging a threaded perforation 12 of the enlarged bottom portion of the adjustable jaw. The slide is also provided

with a rigid projection 13, fitting in a perforation 14 of the bottom of the adjustable jaw, whereby the latter is locked against rotary movement on the slide. The head of the screw 11 is counter-sunk in the lower face of the slide, but any other suitable means may be employed for securing the slide and the jaw together. The slide interlocks the adjustable jaw with the base plate and moves in the slot 10 when the adjustable jaw is opened or closed.

The adjustable jaw is provided with a gravity catch 15, approximately L-shaped, as clearly shown in Fig. 3 of the drawing, and provided adjacent to its angle with a laterally projecting pivot 16, fitted in spaced bearing recesses 17, located at opposite sides of a slot 18 through which the catch passes. The engaging arm 19 of the catch is laterally enlarged, being approximately T-shaped, and it operates in an enlarged portion 20 of the slot 18, as clearly shown in Fig. 5 of the drawing. The operating arm, which is longer than the engaging arm, extends outwardly through the slot 18 and has sufficient weight to swing the engaging arm inwardly to the inner transverse wall of the enlarged portion 20 of the slot to a position for engaging opposite notches 21 and 22 of the base plate. The notches 21 are located at the inner end of the slot and form shoulders at opposite sides of the same, and is engaged by the catch when the adjustable jaw is in its closed position. The other notches 22 are engaged by the gravity catch when the adjustable jaw is moved outward to its open position. The shoulders formed by the notches are slightly inclined to enable the gravity catch to be readily lifted out of engagement with the notches. The outward pressure or strain on the adjustable jaw firmly maintains the catch in engagement with the said notches, so that there is no liability of the adjustable jaw slipping outward accidentally.

While the adjustable chock is designed primarily for use on boats, it may be advantageously employed for various other purposes, as it is adapted to form a closed rope chock or guide and may be quickly opened to release a rope or cable when desired.

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

1. An adjustable chock comprising a base plate provided at one end with a fixed

curved jaw, said base plate being extended beyond the fixed jaw and provided with a longitudinal guiding slot, a curved adjustable jaw slidable along the extended portion of the base plate and movable toward and from the fixed jaw so as to provide a circular opening when the jaws are closed and an elongated opening when the jaws are open, means operating in the slot for guiding the adjustable jaw, and a device to lock the adjustable jaw in either position.

2. An adjustable chock including a base plate provided at one end with a fixed projecting jaw and having a longitudinal slot at the other end, an adjustable jaw seated upon the base plate and extended toward the fixed jaw and movable to and from the same to form an open or closed chock, a slide operating in the slot and interlocked with the base plate and connected with the adjustable jaw, and a catch mounted on the adjustable jaw and arranged to engage the base plate for locking the adjustable jaw.

3. An adjustable chock including a base plate provided with a fixed projecting jaw and having a longitudinal slot and provided at opposite sides thereof with notches, an adjustable jaw slidable along the base and provided with a slot, a slide interlocked with the walls of the longitudinal slot and connected with the adjustable jaw, and a gravity catch fulcrumed in the slot of the adjustable jaw and having an exterior operating arm, and an interiorly arranged engaging arm co-acting with the notches to lock the adjustable jaw.

4. An adjustable chock including a base plate having a fixed jaw and provided with a convex upper face and having a longitudinal slot, the side walls of the slot being oppositely inclined, an adjustable jaw having a concave lower face seated on the convex upper face of the base plate, a dove-tailed slide interlocked with the inclined walls of the said slot and connected with the adjustable jaw, and locking means carried by the adjustable jaw and arranged to engage the base plate.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CHARLES E. BERRY.

Witnesses:

L. G. GREEN,
GEORGE W. SNOW.