

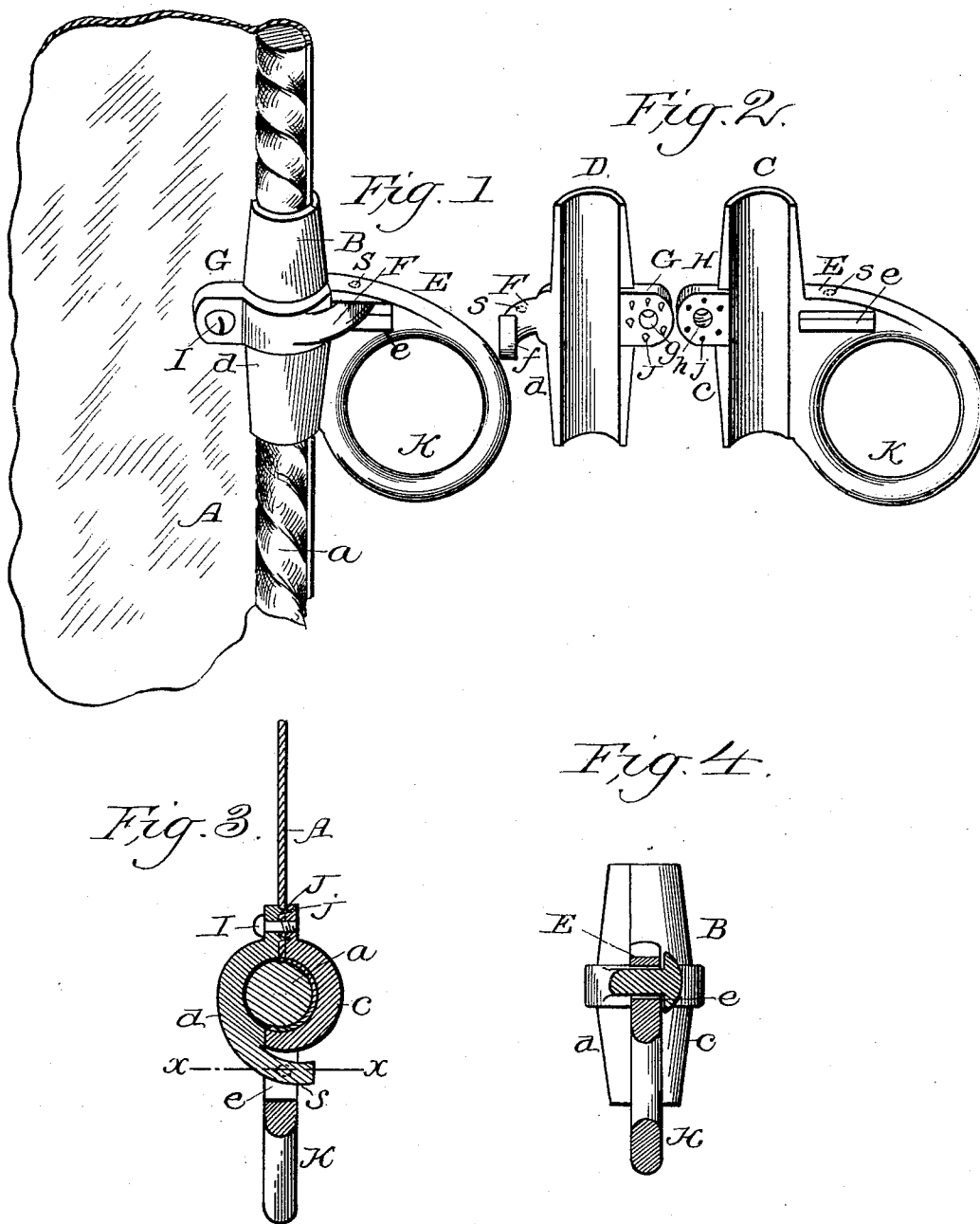
(No Model.)

2 Sheets—Sheet 1.

W. R. CUTLER.
CRINGLE FOR SAILS.

No. 479,404.

Patented July 26, 1892.



Witnesses

J. L. Litch

M. J. McMahon

Inventor

William R. Cutler

By his Attorney

J. R. Litch

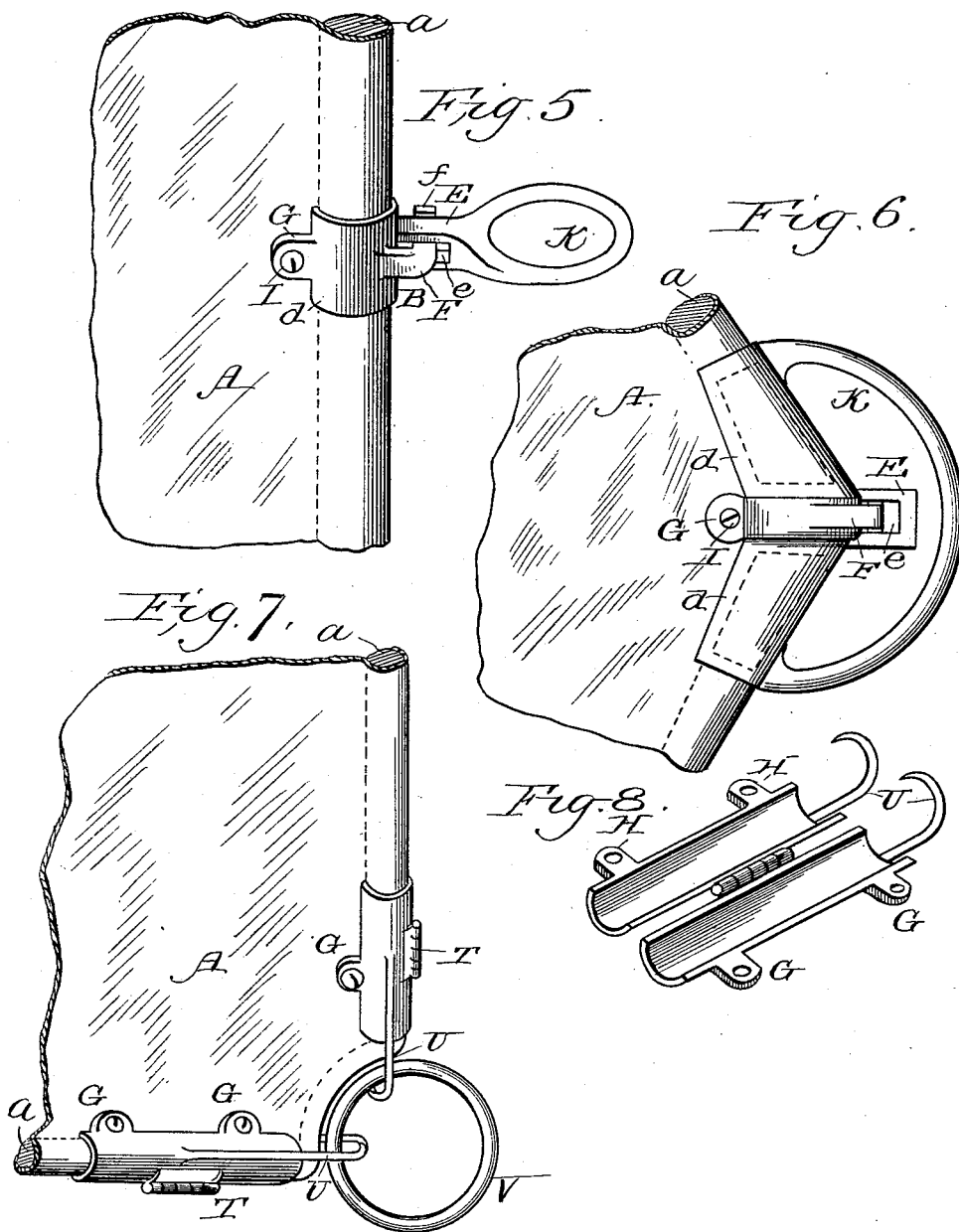
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C. J. Litter

M. McMahon,

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William R. Cutler

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UNITED STATES PATENT OFFICE.

WILLIAM R. CUTLER, OF BATH, MAINE, ASSIGNOR OF TWO-THIRDS TO
ALEXANDER M. CUTLER, OF SAME PLACE, AND WILLIAM P. CUTLER, OF
BALTIMORE, MARYLAND.

CRINGLE FOR SAILS.

SPECIFICATION forming part of Letters Patent No. 479,404, dated July 26, 1892.

Application filed April 4, 1892. Serial No. 427,702. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. CUTLER, a citizen of the United States, residing at Bath, in the county of Sagadahoc and State of Maine, have invented a new and useful Cringle or Lizard for Sails, of which the following is a specification.

This invention relates to cringles or lizards for sails; and it has for its object to provide a device of this character designed to be readily and conveniently attached to or removed from the sail without the employment of securing-ropes.

A further object of the invention is to provide a simple and improved cringle or lizard constructed entirely of metal and provided with a clamp, by means of which it is adapted to be attached to a sail.

In the drawings, Figure 1 is a perspective view illustrating the application of my improved cringle to a sail. Fig. 2 is a detail perspective view of the parts of the cringle detached. Fig. 3 is a horizontal sectional view, the parts being shown coupled together. Fig. 4 is a sectional view on the line *xx*, Fig. 3. Fig. 5 is a detail perspective view illustrating the adaptation of my invention for use as a lizard. Fig. 6 is a side elevation illustrating a modification. Fig. 7 is a perspective view illustrating another modification. Fig. 8 is a similar detail view of the device detached and illustrating the members thrown open.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A designates a sail, to which is attached my improved cringle B. The latter consists of two members C D, each of which comprises a clamping-plate *c d*, respectively, approximately semicircular in shape and located in reverse relation to each other, said plates being adapted to embrace the sail-rope *a*. The member C is provided with an arm E, projecting centrally from one edge of the plate *c* and at right angles thereto, said arm having a similarly located slot *e*. The member D is likewise provided with an arm F of right-angular form and projecting at right angles from the plate *d*. The outer portion of the arm F projects toward and through the slot in the arm E and is provided

with an approximate T-head *f*, which occupies a position at right angles to the slot *e* when the parts are assembled and serves to couple the members C and D together.

For binding the clamping-plates *c* and *d* together, the same are provided at their free edges with coincident lugs G H, respectively, the former being provided with a smooth bore *g* and the latter with a coincident screw-threaded bore *h*. Passing loosely through the bore *g* and meshing with the threads of the bore *h* is a clamping-screw I. For binding the lugs G and H to the sail, one of said lugs is provided with a series of teeth or studs J, projecting from its inner face, which are received by coincident depressions *j* in the opposing face of the other lug. In lieu, however, of this construction, said lugs may be provided with coincident apertures surrounding the clamping-screw bores and designed to receive small screws.

K designates a ring or loop, which constitutes the cringle or lizard proper and which is carried by one of the members C or D. When the device is designed as a cringle, the ring or loop is preferably arranged as shown in Figs. 1, 2, 3, and 4. In this instance the ring or loop is arranged longitudinally with relation to the clamping-plate and is formed integral therewith at one side its longitudinal center; but when the invention is designed as a lizard, the ring or loop is formed integral with the outer end of the arm E and at right angles to the clamping-plates. The arrangement, however, of the ring or loop may be obviously changed to suit the various uses and positions to which my invention may be applied.

In practice, to attach my improved cringle or lizard, the clamping-screw is first removed and the clamping-plates thrown apart to receive the rope *a*. The screw is then reinserted, passed through the sail, and finally screwed home to bind the clamping-plates rigidly to the rope.

I do not wish to be understood as limiting myself to the precise construction herein shown and described, as numerous modifications may be made without departing from the spirit and scope of my invention. For

instance, the T-head coupling may be dispensed with and the members coupled together by a pivot pin or bolt, as shown at S in dotted lines, Fig. 2. In Fig. 6 I have also shown
 5 another modification, in which the device is designed for attachment to the clew of a jib-sail or to the corner of a sail. To permit of such application, the clamping-plates in lieu of being straight are formed angular, the angle of the bend being at the desired degree
 10 to accommodate the angle of the portion of the sail to which it is to be applied. In this case the ring or loop is arranged longitudinally with relation to the plates and also centrally, as shown.

For the purpose of decreasing the weight of the device and reducing the cost of manufacture, the clamping-plates may be of skeleton form, as illustrated in dotted lines, Fig. 6.
 20 In Figs. 7 and 8 I have illustrated another modification of the device as designed to be used upon a clew or corner of a sail. In this instance the clamping-plates are hinged together at one edge, as shown at T, and provided at the opposite edge with the lugs G H.
 25 Projecting from one end of each clamping-plate is a hook U, which hooks form, conjunctively, a U-shaped loop when the clamping-plates are closed. In practice two of these
 30 devices are used upon the sail, one at each edge, with the loops opposing each other, and coupled with said loops is a ring V.

I claim as my invention—

1. A cringle or lizard for sails, comprising
 35 two plates *c d*, approximately semicircular in cross-section and forming, conjunctively, a tubular clamp, said plates being pivotally connected together at one edge and provided at their free edges with coincident lugs G H, and
 40 a clamping-screw I, passing through said lugs, substantially as and for the purpose set forth.

2. A cringle or lizard for sails, comprising

two clamping-plates pivotally connected together and provided with clamping means for locking said plates together, and a ring or loop
 45 carried entirely by one of said plates, substantially as and for the purpose set forth.

3. A cringle or lizard for sails, comprising two clamping-plates, one of which being provided with an arm E, having an elongated slot
 50 *e*, and the other plate provided with an arm F, carrying a T-head *f*, adapted to engage and be locked in said slot, substantially as and for the purpose set forth.

4. In a cringle or lizard for sails, the combination of two members, one of which being
 55 provided with a slotted arm and the other with an angular arm carrying at its free end an approximate T-head adapted to be received by the slotted arm and engage the distal side
 60 thereof, and means for clamping said plates at their free edges, substantially as and for the purpose set forth.

5. As an improved article of manufacture, a cringle or lizard for sails, consisting of two
 65 metallic members, one of which being provided with an approximate semicircular clamping-plate, a lug projecting from the free edge thereof, and with a slotted arm at its opposite edge, the other plate being provided with
 70 a coincident clamping-plate and lug and with an angular arm having an approximate T-head adapted to engage said slotted arm, all parts of said respective members being integral, a
 75 ring or loop integral with one of the members, and a clamping-screw engaging said lugs, substantially as and for the purpose set forth.

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

WILLIAM R. CUTLER.

Witnesses:

ANNIE W. CUTLER,
 SUSIE F. LOCKE.