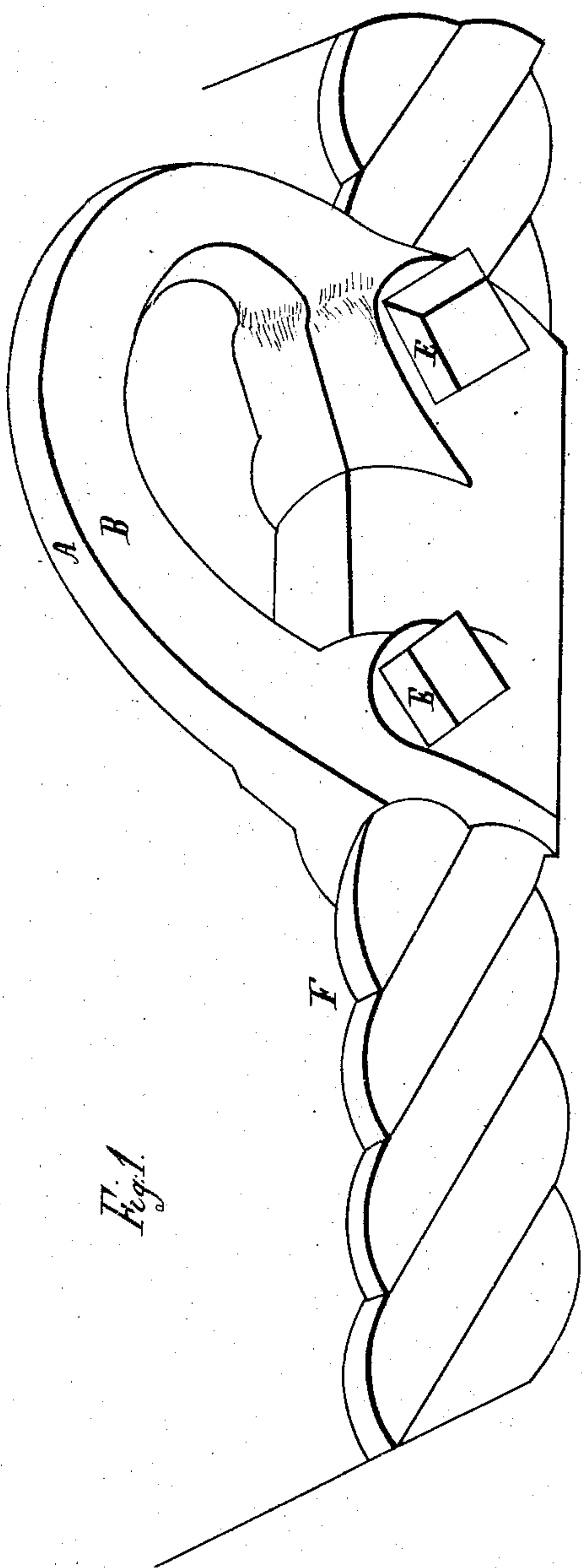


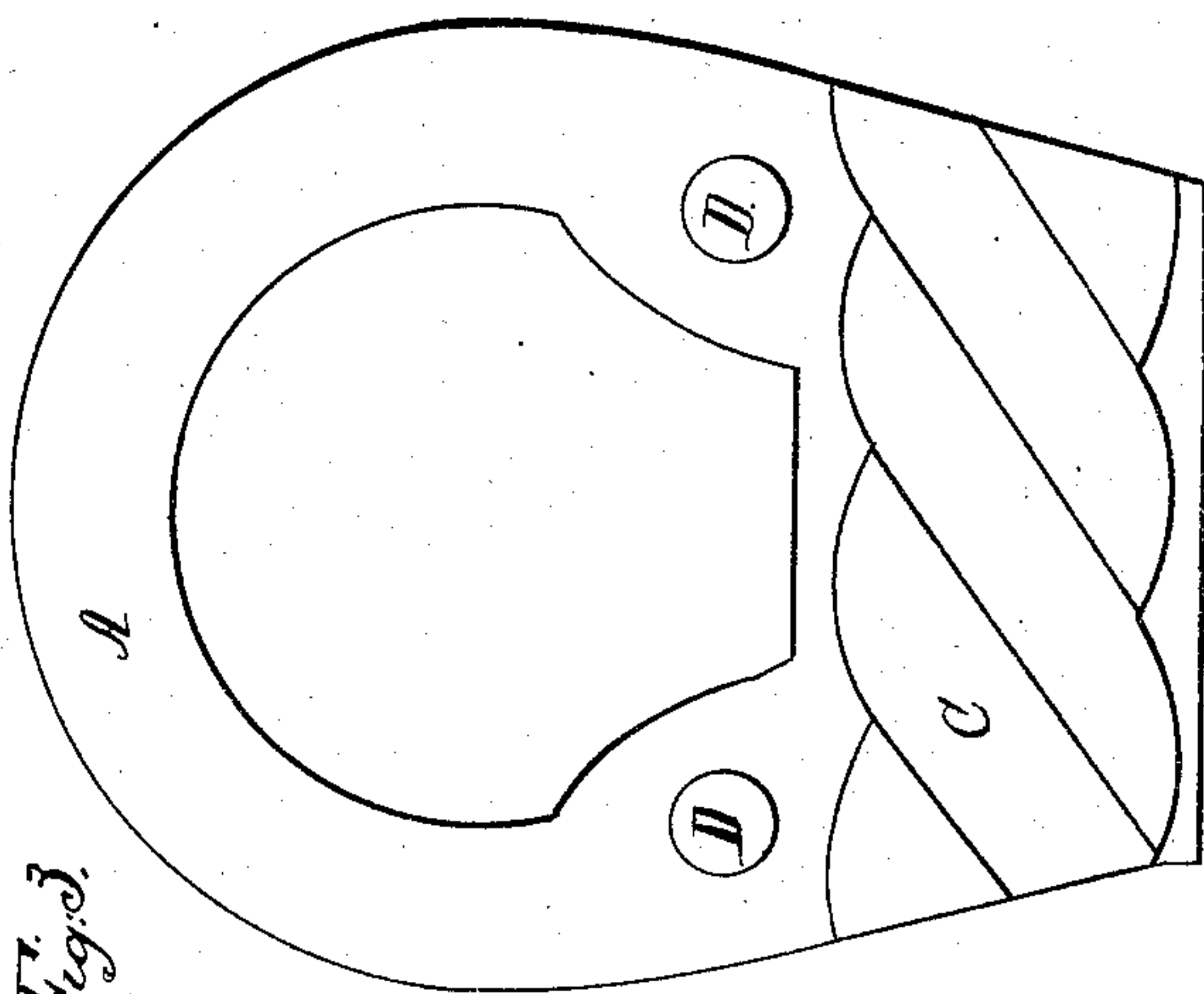
*F. Chandler.*  
*Hawser Clamp.*

*N<sup>o</sup> 41,364.*

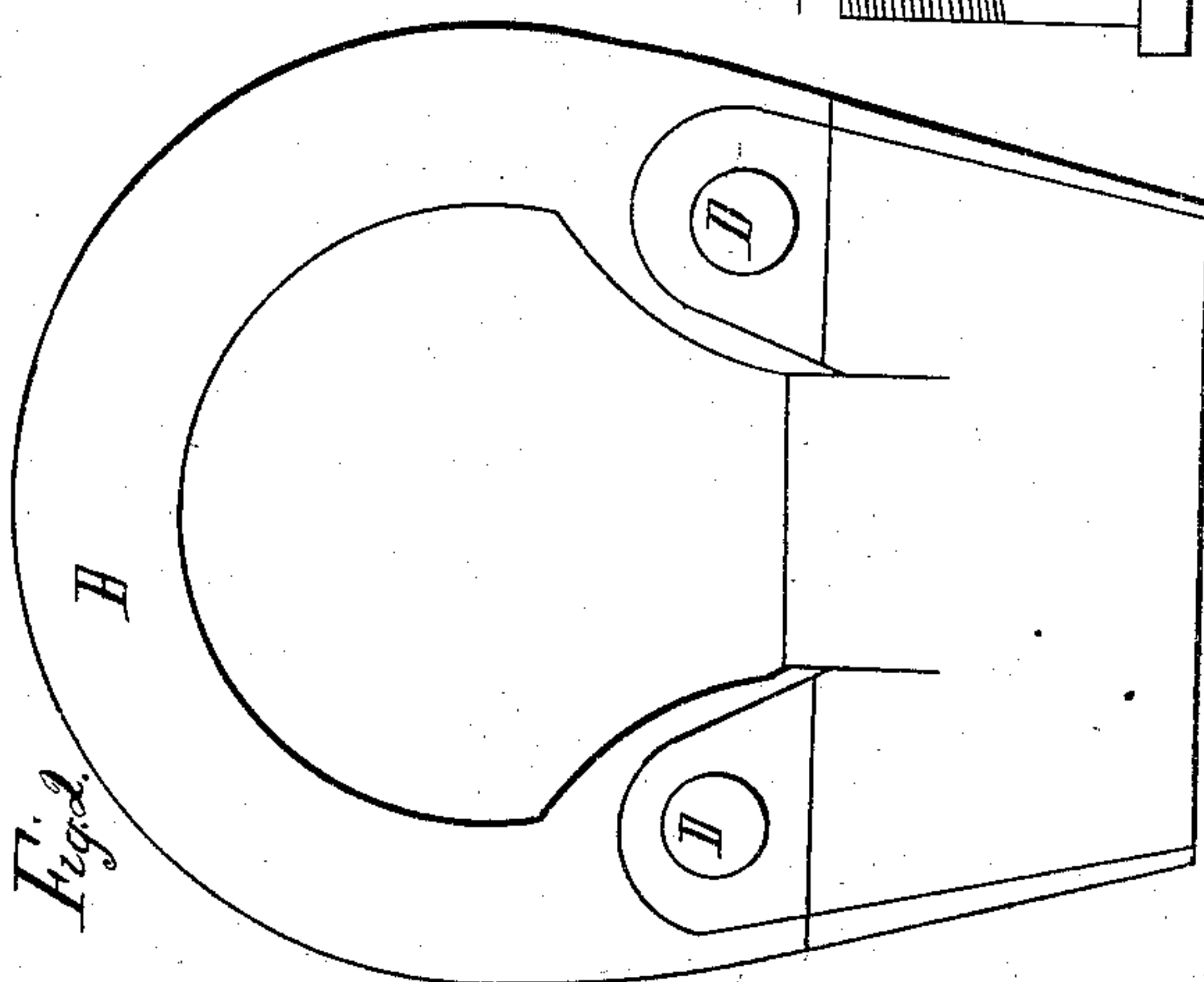
*Patented Jan. 26, 1864.*



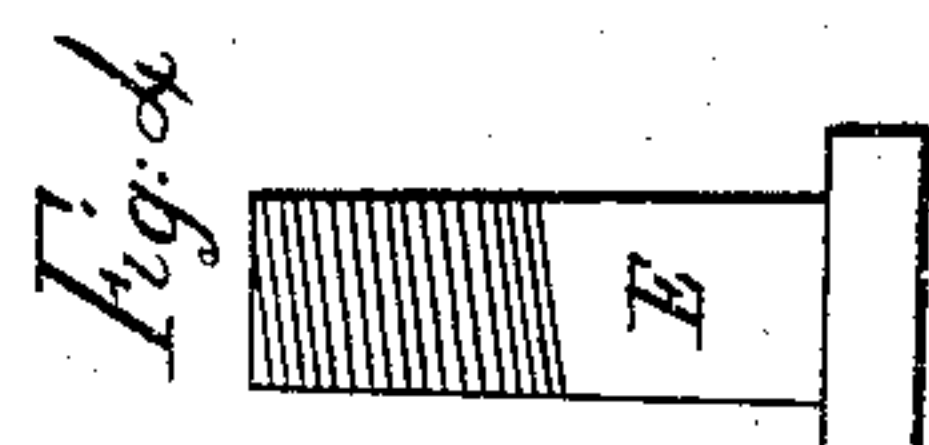
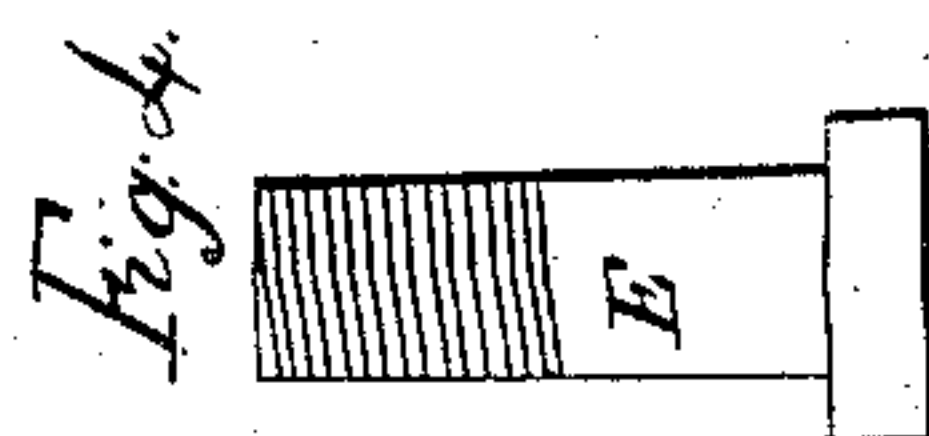
*Fig. 1.*



*Fig. 3.*



*Fig. 2.*



*Fig. 4.*

*Fig. 4.*

# UNITED STATES PATENT OFFICE.

FREDERIC CHANDLER, OF CHARLESTOWN, MASSACHUSETTS.

## IMPROVED SAIL CRINGLE AND CLEW.

Specification forming part of Letters Patent No. 41,364, dated January 26, 1864.

*To all whom it may concern:*

Be it known that I, FREDERIC CHANDLER, of Charlestown, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements on Cringles and Clews for Sails; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention is a metallic cringle, designed to take the place of the rope cringle and clew now in use. It is formed of two parts, each part containing cavities on the inside for the rope on the sail to fit in. These parts are put on the edge of the sail, grasping the rope and duck between the cringle, the parts held together by screws.

In the accompanying drawings, Figure 1 is a view of my invention, representing all parts connected. Fig. 2 is the outside view of one of the parts that clasp the rope and sail. Fig. 3 is the inside view of one of the parts. Fig. 4 represents the screws that secure the two parts together.

A represents the upper piece. B is a view of the lower piece. C represents one-half of the cavity, corresponding with the form of the

rope. D is the holes through which E is inserted to unite A and B together, clasping F, (the sail,) which constitutes the whole, connected in perfect order, as represented in Fig. 1.

It is essential to state my cringle will vary in sizes to suit the various sizes of sails, and the concavities in the parts made to correspond with the sizes of ropes. The smaller sizes of my cringle will be held together by one screw or rivet. When the cringle is fitted together, it forms a clasp fitting all parts of the rope on the edge of the sail. Its adoption avoids the labor of splicing, and its durability and easy application render it fit for use after the original sail is worn out.

What I claim as my invention, and desire to secure by Letters Patent, is—

A metallic cringle of two parts for grasping the rope and sail, these parts held together by screws or rivets, the whole constructed and the parts thereof arranged substantially as and for the purpose specified.

FREDERIC CHANDLER.

In presence of—

E. C. BANFIELD,  
C. F. DANA.