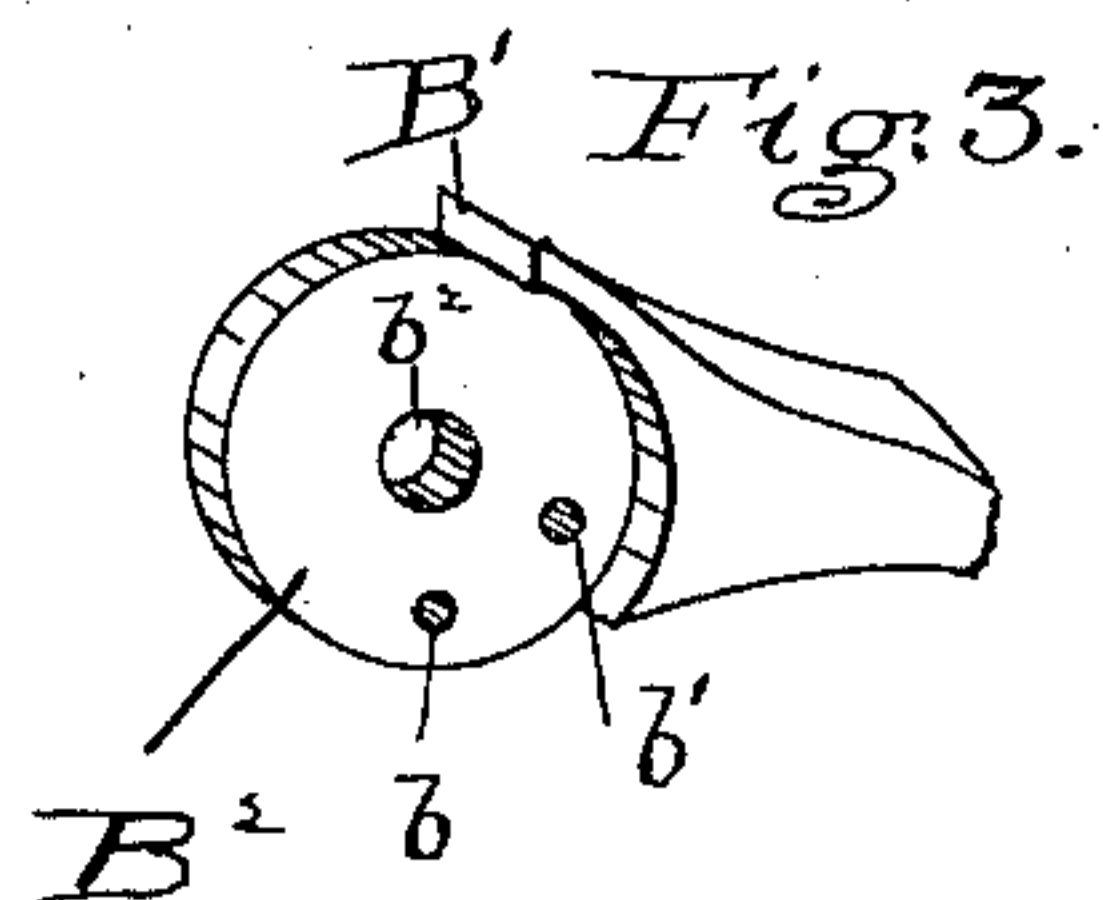
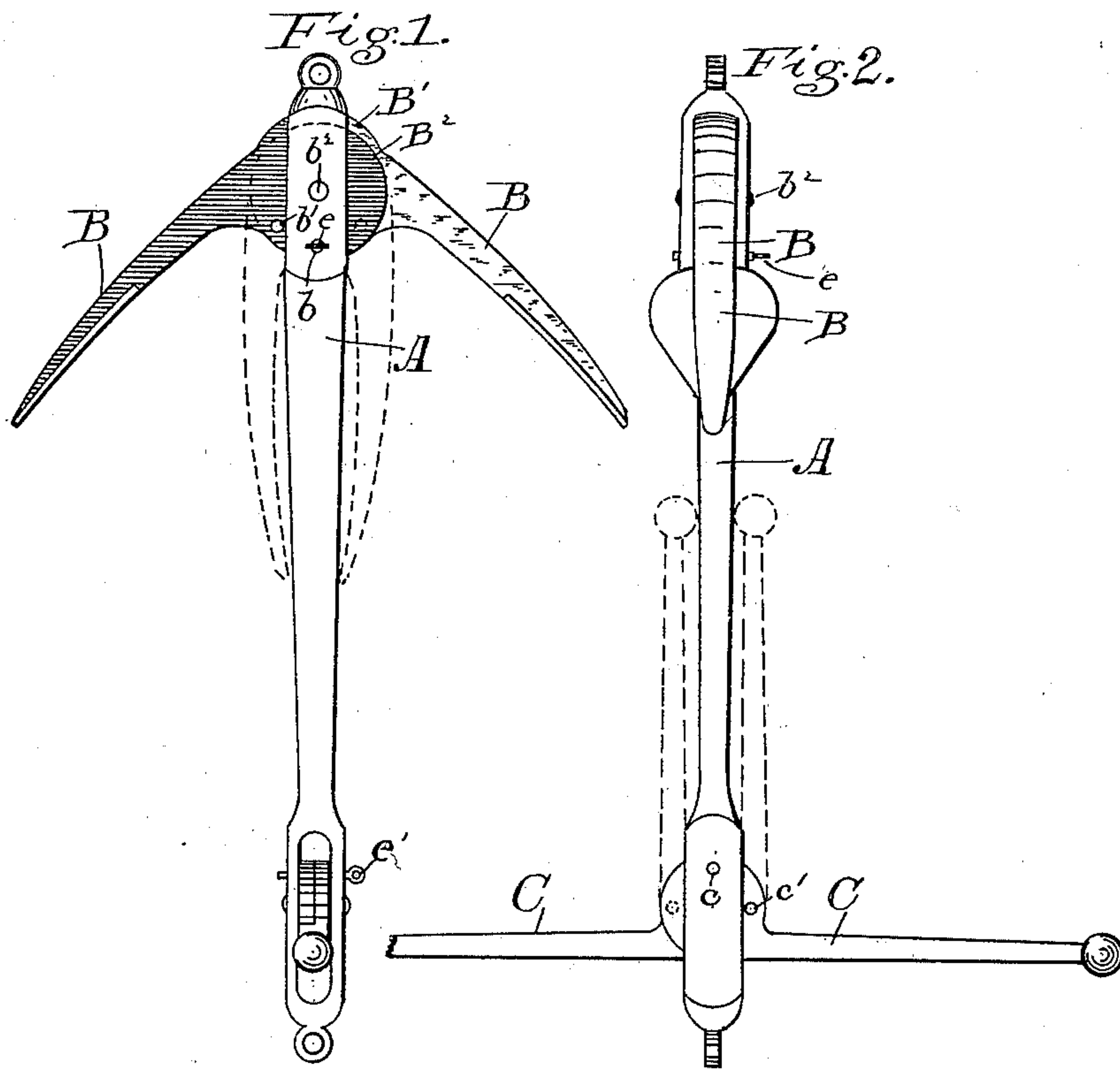


(No Model.)

T. S. LAUGHLIN.  
FOLDING ANCHOR.

No. 401,654.

Patented Apr. 16, 1889.



Witnesses:  
Charles S. Cook  
W. M. Edson

Inventor:  
Thompson S. Laughlin  
by S. M. Bates  
his atty.

# UNITED STATES PATENT OFFICE.

THOMAS S. LAUGHLIN, OF PORTLAND, MAINE.

## FOLDING ANCHOR.

SPECIFICATION forming part of Letters Patent No. 401,654, dated April 16, 1889.

Application filed November 28, 1888. Serial No. 292,160. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS S. LAUGHLIN, a citizen of the United States, residing at Portland, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Folding Anchors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to folding anchors in which the stock and the arms fold down against the shank for the purpose of making the article compact and easy to stow.

Anchors have before been made in which the arms and stock were folded, but such anchors were not provided with suitable means for holding them either open or closed, and hence in handling them in either condition much inconvenience was caused.

The object of my invention is to construct such a folding anchor with means for securing it either open or closed; and it consists in an anchor having its arms and the two parts of its stock pivoted to the shank with a "rule" or circular joint, holes through each joint-section so located as to coincide with a hole in the shank when the arms or sections of the stock are open, and similar holes located to coincide when they are closed, whereby a single pin serves to fasten the said arms or stock in an open or closed position.

I illustrate my invention in the accompanying drawings, in which—

Figure 1 is a side view of my anchor with the arms open. Fig. 2 is a side view taken at right angles to Fig. 1. Fig. 3 is a detail view of the pivoted end of one of the arms.

A is the shank of the anchor having a longitudinal slot or opening near each end to receive the stock C and arms B. The arms B are pivoted at one end of the stock by means of a rule-joint, each arm being provided with a circular disk, B<sup>2</sup>, having a central pivot-hole, 2<sup>2</sup>, and two additional holes, b and b', near the perimeter of the disk B<sup>2</sup>. A shoulder, B', is also formed on the arm, and has a bearing against the shank when the arm is opened out. The holes b in the two disks B<sup>2</sup> are so located that when the arms are opened,

with the shoulder B' resting against the shank, they will come in line with each other and with a hole, b, in the shank, and thus receive a pin, e, which is provided to pass through the shank and arms to hold the latter in position. The holes b' in like manner are placed so that they will coincide with the holes b and with each other when the arms are closed down against the side of the shank, as shown in dotted lines. It will thus be seen that by the use of a single pin, e, which I preferably secure to the shank by a chain or otherwise, I am able to fasten the arms in an open or a closed position.

The stock C is made in two sections pivoted to the shank by a rule-joint of similar construction to the one described, and is provided with two sets of holes, c and c', the former of which comes in line with corresponding holes on each side of the shank when the stock is open and the latter when it is closed. A single pin, e, serves to hold the stock either open or closed, as in the case of the arms.

In handling, either open or closed, and in stowing the anchor, it is of great convenience to have the folding parts all secured in place, and the means which I have here shown for accomplishing this result are simple and effective, and an anchor thus constructed has the advantage of cheapness, durability, and convenience.

As here shown, the pin e is relieved from strain by the shoulder B'; but it is obvious that this shoulder can, if desired, be dispensed with and the pin made large enough to resist the strain exerted upon it.

I claim—

1. The herein-described folding anchor having the independent arms and stock pivoted to the shank by means of a rule-joint, holes through said joint-sections, located to coincide with corresponding holes in the shank for the admission of a pin when the parts are opened, and holes located to coincide in like manner when the parts are closed, combined with a pin adapted to enter said holes to retain said parts in an open or closed position, substantially as described.

2. The herein-described folding anchor hav-

ing the two independent arms pivoted to the  
shank by means of a rule-joint, holes through  
said joint, located to register with holes in the  
shank for the admission of a pin to retain said  
5 arms when open, and registering holes in said  
joint and shank to admit a pin for retaining  
said arms in a closed position, substantially  
as described.

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

THOMAS S. LAUGHLIN.

Witnesses:

S. W. BATES,  
FRANK E. BACON.