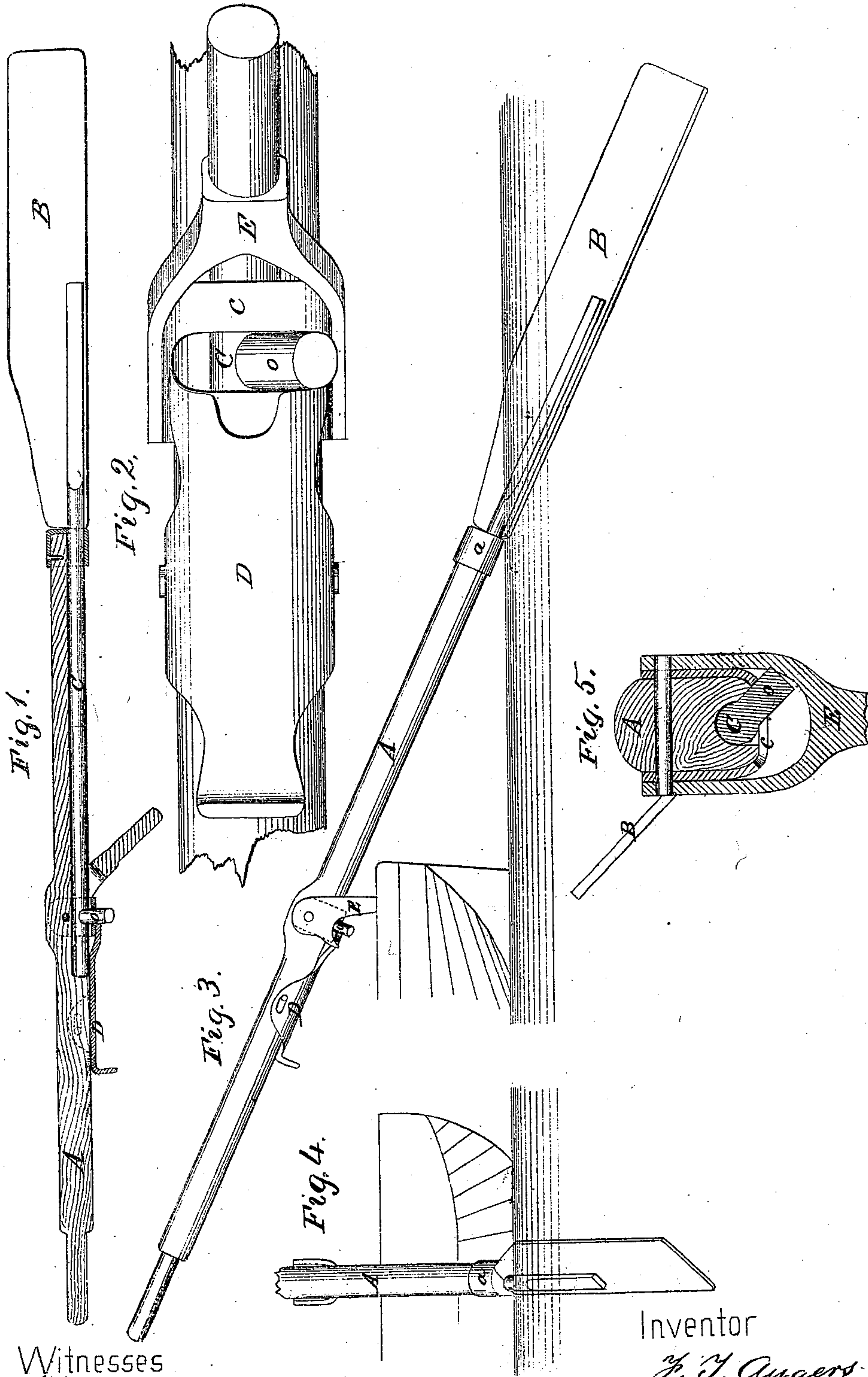


*F. T. Angers,*

*Car.*

*No. 95,754.*

*Patented Oct. 12, 1869.*



Witnesses  
*E. W. Anderson.*  
*D. D. Kane*

Inventor  
*F. T. Angers.*  
*Chipman Hosmer & Co.*  
*Atty.*

# United States Patent Office.

FRED. T. ANGERS, OF CANASTOTA, NEW YORK.

Letters Patent No. 95,754, dated October 12, 1869.

## IMPROVEMENT IN SCULLING-OARS.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, FRED. T. ANGERS, of Canastota, in the county of Madison, and State of New York, have invented a new and valuable Improvement in Oars for Sculling or Rowing; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1, of the drawings, is a representation of a longitudinal central section of the sculling-oar.

Figure-2 is an enlarged bottom view of pin E and adjacent parts.

Figure 3 is a side view of oar in position.

Figure 4 is a rear view of oar in position.

Figure 5 is a cross-section of oar through the pin E.

My invention relates to means for propelling skiffs and row-boats; and

It consists mainly in the construction and novel arrangement of a sculling-oar, which may be used either to scull or steer the boat, at the operator's will.

The letter A, of the drawings, represents the wooden handle of my oar, and

Letter B; the metallic blade thereof.

The letter C represents a metallic rod, rigidly attached at one end to the oar-blade, and fitted in a groove in the handle thereof. It is held in the groove by means of the band *a* and the staple *c*.

The staple *c* is a bent plate, that is arranged upon the handle, in the manner shown, and has a slot, *n*, in which the small arm *o* of the rod is placed, for the purpose hereinafter mentioned.

The letter D represents an adjustable plate, affixed upon the handle, in the manner shown, and having a

circle, *h*, cut out of its front end, adapted to the size of the arm *a*, and intended to clasp the same when desirable so to do. This plate D is made adjustable upon the oar-handle by means of small slots in its sides, working over pins in the handle, as shown at *s*.

The letter E represents the pin, pivoted to the handle, by which the oar is connected with the boat.

My oar is operated as follows, namely:

The rod C is so arranged in its groove, band, and staple, that it may turn or rotate, back and forth, the distance allowed by the slot *n*, in conjunction with the arm *o* upon the rod. This movement is secured at each vibration of the oar in the water, by the force of the stroke and the resistance of the water, and thereby the blade is permitted to assume a diagonal position in relation to the handle.

Whenever it is desirable to use the oar for steering or rowing, I crowd the plate D forward until its circle clasps the arm *a*, and holds it rigidly.

The blade of the oar need not always be made of metal. Strong, firm wood will often serve a better purpose than metal for such blades or flukes.

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

A sculling-oar, having grooved handle A, blade B, rod C, plate D, and staple *c*, constructed and arranged substantially as shown and described.

In testimony that I claim the above, I have hereto subscribed my name, in the presence of two witnesses.

FRED. T. ANGERS.

Witnesses:

SAMUEL L. CONDÉ,  
WINSOR S. COMAN.