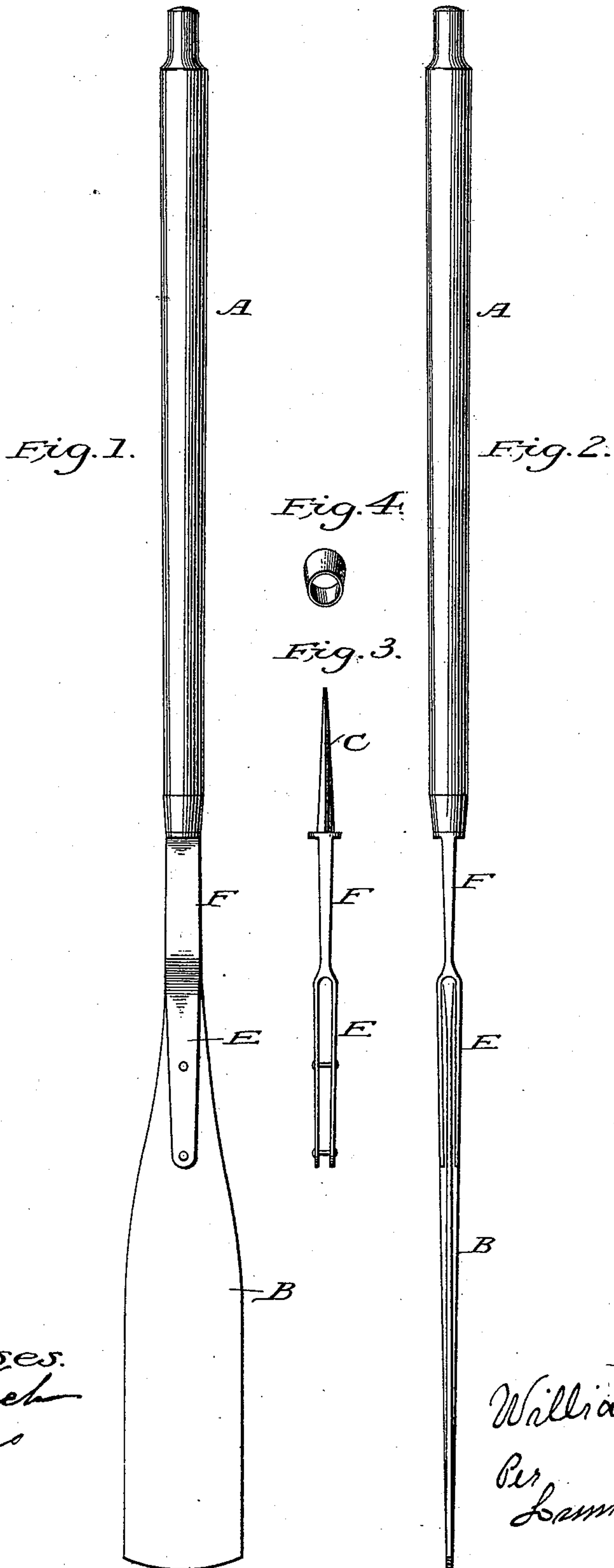


(Model.)

W. W. FRAKER.
OAR.

No. 522,201.

Patented July 3, 1894.



Witnesses.
M. W. Kirsch
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UNITED STATES PATENT OFFICE.

WILLIAM W. FRAKER, OF ALMA, MICHIGAN.

OAR.

SPECIFICATION forming part of Letters Patent No. 522,201, dated July 3, 1894.

Application filed June 28, 1893. Serial No. 479,098. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM W. FRAKER, a citizen of the United States, residing at Alma, in the county of Gratiot and State of Michigan, have invented certain new and useful Improvements in the Manufacture of Oars; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in the construction or manufacture of oars.

By the use of my improvement, I claim a saving of material, greater elasticity to the oar, and if either part be broken, it can be repaired or replaced without the loss of the whole oar.

I attain the objects claimed as illustrated in the accompanying drawings, in which—

Figure 1 shows a face or flat view of the oar; Fig. 2 the thin edge of the oar; Fig. 3 the middle part, this is made of spring steel (this I claim as my invention); Fig. 4 the ferrule for the handle part of the oar.

Similar letters refer to similar parts throughout the several views.

The handle part A is made of wood similar to a common oar, but detached from the blade. The blade B is also made of wood

same as a common oar, but detached from the handle A.

The shank C of Fig. 3, the forked end E of Fig. 3 and the flat part F of Fig. 3, are all forged out of a solid piece of spring steel and are used to connect A and B, the shank being inserted into A, and B inserted into the forked end E and riveted fast, thus forming a complete oar. The forked end E can be made a shank like C if desired, and inserted into the blade B. Either part can be repaired or replaced independent of the other parts, and the middle part Fig. 3 being made of spring steel gives great elasticity to the oar.

I am aware that prior to my invention, oars had been made up in parts, hence I do not claim such combination broadly; but

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

An oar consisting of the handle, and blade made separately of wood, and connected by an elastic steel middle part, having a shank at one end inserted into the handle of the oar, and a fork at the other end between the parts of which fork the blade is secured, substantially as described.

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

WILLIAM W. FRAKER.

Witnesses:

HENRY L. JOHNSON,
W. W. KINCH.