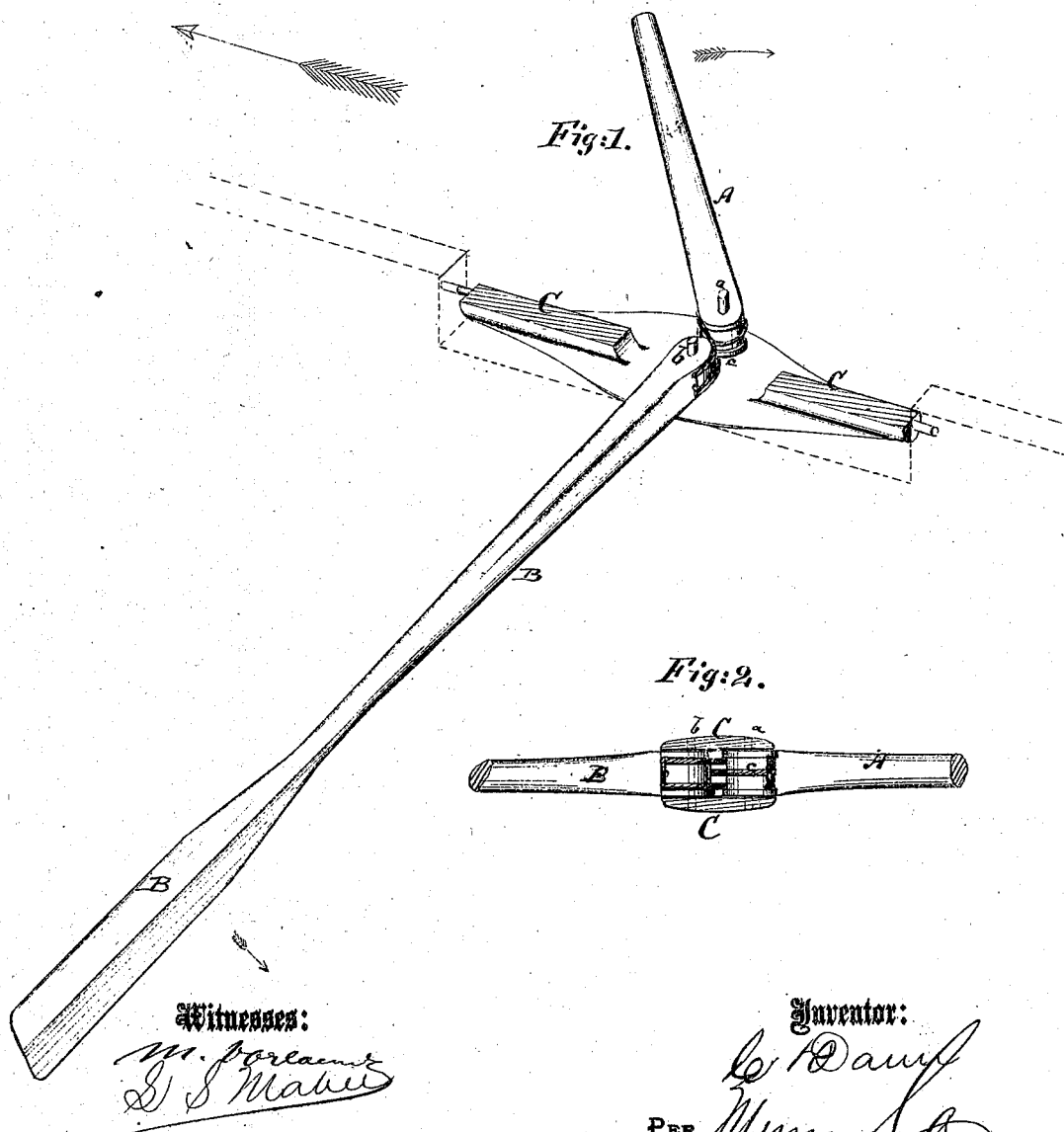


C. Dann,

Car & Car Lock.

No. 107,669,

Patented Sept. 27, 1870.



United States Patent Office.

CHRISTIAN DANN, OF LA CROSSE, WISCONSIN.

Letters Patent No. 107,669, dated September 27, 1870.

IMPROVEMENT IN JOINTED 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, CHRISTIAN DANN, of La Crosse, in the county of La Crosse and State of Wisconsin, have invented a new and improved Jointed Oar; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a perspective view of my improved jointed oar.

Figure 2 is a detail side view of the jointed part.

Similar letters of reference indicate corresponding parts.

My invention relates to jointed oars which are operated by a person facing the bow; and

It has for its object to dispense with metal cogs, which rattle, produce great friction, are heavy, expensive, and constantly acting to pull apart the joint. For this purpose I propose to combine, with the ordinary pivoted handle, blade, and swinging plate, a flexible cord, fastened to the rounded and pivoted ends of the handle and blade.

A B are the two parts of the oar, A being the handle and B the blade.

These two parts are, by means of pins *a b*, respectively pivoted to a plate, *O*, which, at its ends, is pivoted into ears projecting from the gunwale of the boat.

The contiguous or adjoining pivoted ends of the parts A B are connected with each other by means of a string or cord, *c*. Thus, it will be perceived that the constant tendency of the joints will be to come together, instead of being to separate; that the joint works noiselessly; that the cord is readily replaced in case of accident or wear, and that the cost is but a small fraction of that of the cogged metal pinions.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination, with a pivoted handle, blade, and plate, A B C, of the flexible cord *c*, fastened to the rounded ends of the handle and blade, as and for the purpose described.

CHRISTIAN DANN.

Witnesses:

LEWIS FRIEDERICH,
JAMES CARLILE.