(No Model.)

C. M. HALL.

BOW FACING OAR.

No. 346,745. Patented Aug. 3, 1886.

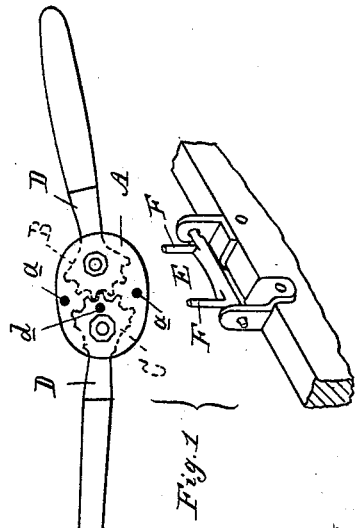

Fig. 1.

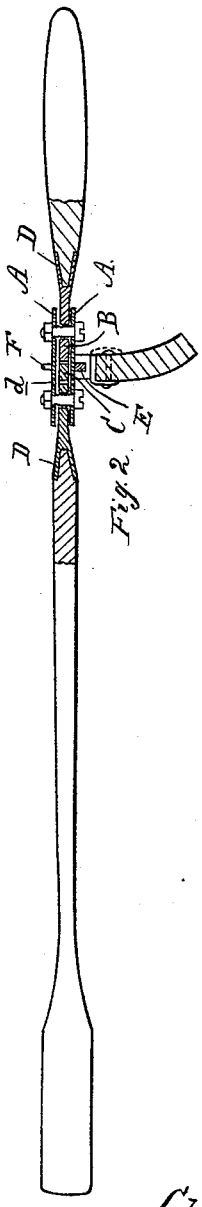

Fig. 2.

Attest:
John Schuman.
Charles J. Hunt

Inventor:
Chauncy M. Hall.
by his Atty
Thos. S. Sprague

UNITED STATES PATENT OFFICE.

CHAUNCEY M. HALL, OF BELLAIRE, MICHIGAN, ASSIGNOR OF ONE-HALF TO GEORGE W. ALBRECHT, OF SAME PLACE.

BOW-FACING OAR.

SPECIFICATION forming part of Letters Patent No. 346,745, dated August 3, 1886.

Application filed December 17, 1885. Serial No. 185,945. (No model.)

To all whom it may concern:

Be it known that I, CHAUNCEY M. HALL, of Bellaire, in the county of Antrim and State of Michigan, have invented new and useful Improvements in Bow-Facing Oars; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and novel improvements in the construction of oars and rowlocks; and the invention consists in the puculiar construction, arrangements, and combination of the various parts, all as more fully hereinafter set forth.

In the accompanying drawings, which form a part of this specification, in Figure 1 my improved device is shown in perspective with one of the plates broken away to disclose the gear. Fig. 2 is a cross-section.

A A represent two plates, between which are pivotally secured the semicircular gears B C, which mesh with each other. Each of the gears is provided with an outwardly-projecting socket, D, in which to secure the oars, as shown.

E represents what may be termed the "rowlock," and it consists of a bar pivotally secured in proper bearings which are attached to the boat at the suitable points. This bar is provided with two pins, F, which are designed to engage with the two holes *a* in the plates A of the oar.

When constructed and operated in the manner above described, the action of the oar is that of the so-called "bow-facing" oar, the oarsman facing in the direction in which he is rowing. If it is desired to use the oar as in the ordinary manner—that is, to propel the boat in the opposite direction to which the oarsman is facing—I disengage the plate A from the pins of the roller and insert one of such pins through the hole *d* in the plates and a corresponding hole in one of the gears, such hole being in direct line with the length of the oars and their two pivotal points. This locks the gears, and, when operated, reverses the action of the oar.

What I claim as my invention is—

The combination, with the plates A, provided with holes *a* and hole *d*, said hole *d* being coincident with a hole in one of the gears, and semicircular gears B C, provided with socket D to receive the oars, of the rowlock E, provided with two pins, F, both of which are inserted in holes *a* in said plates to secure the same, or by the insertion of one of said pins in the hole *d* said segments may be locked, substantially as and for the purposes specified.

CHAUNCEY M. HALL.

Witnesses:
JOHN A. HARRIMAN,
C. E. DINSMORE.