(No Model.)

J. BERRON.

OAR FOR ROW BOATS.

No. 580,363. Patented Apr. 13, 1897.

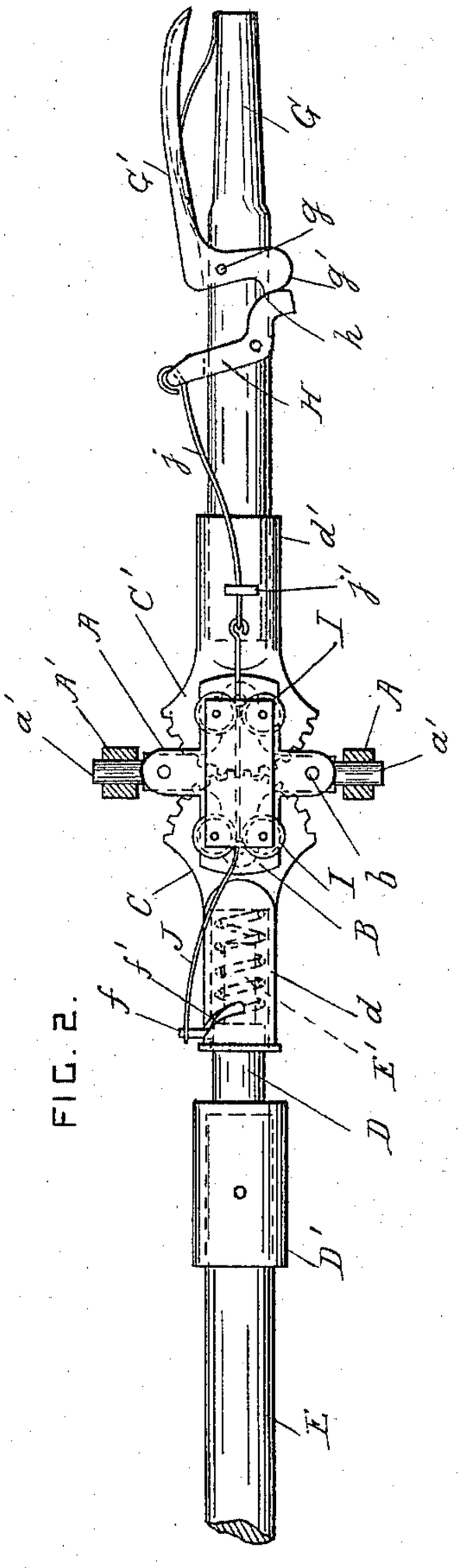

FIG. 2.

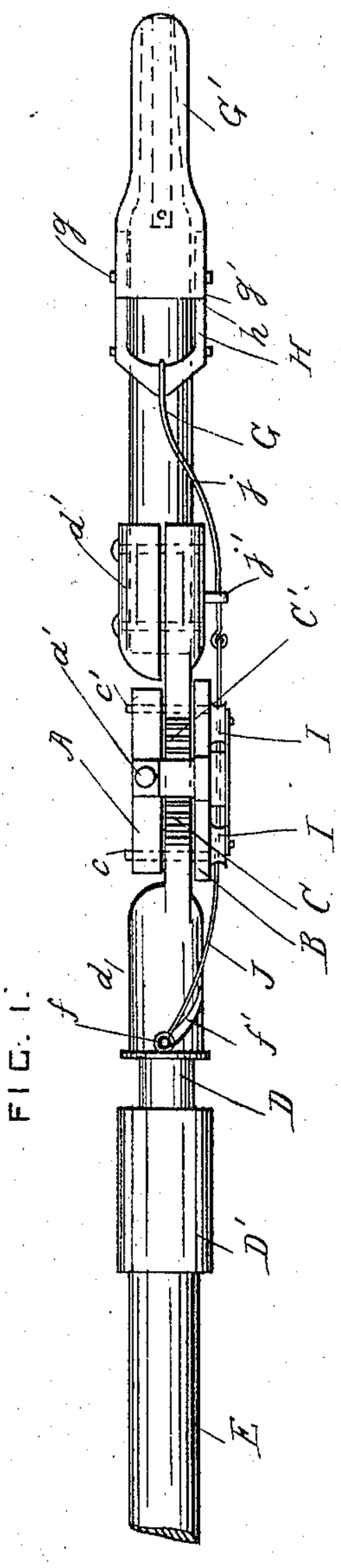

FIG. 1.

Witnesses
A. Page.
E. Hunt

Joseph BERRON, Inventor

By Attorney J.A. Marion

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UNITED STATES PATENT OFFICE.

JOSEPH BERRON, OF JACKMANTOWN, MAINE.

OAR FOR ROW-BOATS.

SPECIFICATION forming part of Letters Patent No. 580,363, dated April 13, 1897.

Application filed January 23, 1897. Serial No. 620,306. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH BERRON, a citizen of the Dominion of Canada, residing at Jackmantown, in the county of Somerset and State of Maine, have invented certain new and useful Improvements in Oars for Row-Boats; 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.

This invention relates to oars for row-boats; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed, whereby the oar may be operated by a person facing the bow of the boat and may be feathered when raised out of the water.

In the drawings, Figure 1 is a side view of the device. Fig. 2 is a plan view of the same from below.

A is a frame provided with pivots a', journaled in bearings A', carried by the side of the boat in any approved manner.

B is a plate which forms the lower part of the frame and is secured to the main part by bolts b.

C and C' are two toothed segments journaled, respectively, on the pins c and c', which are carried by the frame A. The toothed segments gear into each other. The segment C is provided with a socket d, and the segment C' is provided with a socket d'.

D is a shank provided with a socket D'.

E is a portion of an oar which is secured in the socket D'.

The shank D is revoluble in the socket d, and E' is a spring arranged in the socket d and operating to press the shank D outward.

The shank D is provided with a lateral pin f, which projects through a spirally-arranged slot f' in the socket d.

G is a handle secured in the socket d'.

G' is a spring-pressed lever pivoted to the handle G by a pin g, and g' is a heel on the said lever.

H is a lever pivoted to the handle G and provided with a heel h, bearing against the heel g'.

I are four guide-rolls journaled in pairs on pins projecting from the plate B.

J is a cord or chain which is connected to the projecting pin f and which passes between the guide-rolls I. A rod j connects the chain J with the free end of the lever H, and j' is a guide on the socket d' for the rod j to slide in.

The oar is operated by a person in the usual manner, but in operating it he faces the bow of the boat. When the oar is raised out of the water, the lever G' is pressed against the handle, thereby causing the chain to pull back the shank D and revolve it one-quarter of a revolution. This motion of the shank D feathers the oar.

The lever G' is released before the oar is dropped into the water. The spring E restores the oar to its original position as soon as the lever G' is released.

What I claim is—

1. The combination, with a pivoted frame, of two intergearing toothed segments journaled in the frame, one of the said segments being provided with a socket having a spiral slot, a shank revoluble in the said socket and provided with a pin engaging with the said slot, a spring pressing forward the said shank in the said socket, a handle secured to the other said segment, lever mechanism pivoted to the said handle, a flexible connection connecting the said lever mechanism with the said pin, and guide-rolls for the said connection carried by the said frame, substantially as set forth.

2. The combination, with a pivoted frame, of two intergearing toothed segments journaled in the frame, a revoluble spring-pressed shank carried by one of the said segments, a handle connected with the other said segment, a lever pivoted to the said handle and provided with a heel, a second lever pivoted to the handle and provided with a heel operated by the aforesaid heel, and a flexible connection connecting the said second lever with the said shank, substantially as set forth.

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

JOSEPH BERRON.

Witnesses:
J. A. MARION,
A. PAGE.