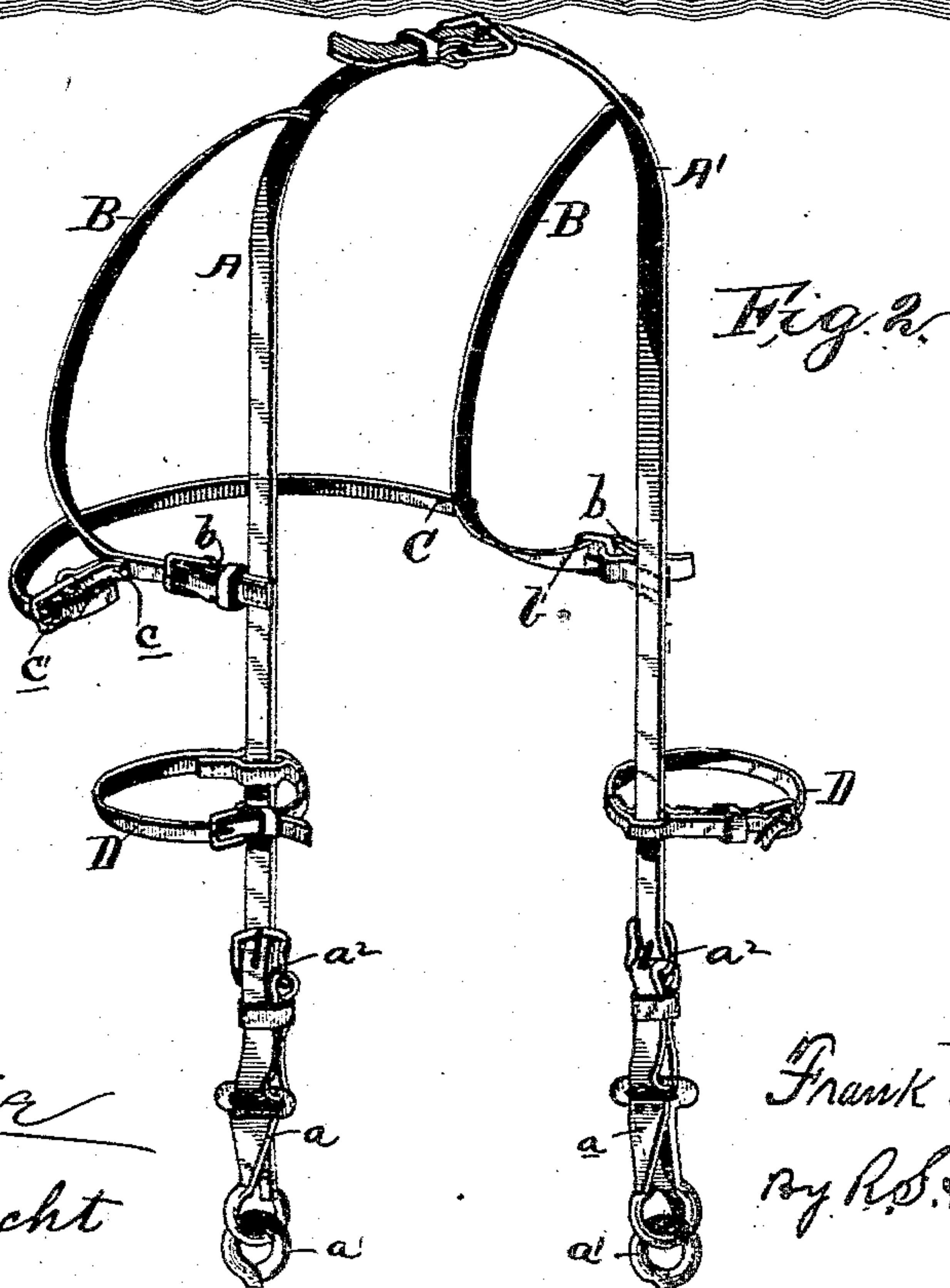
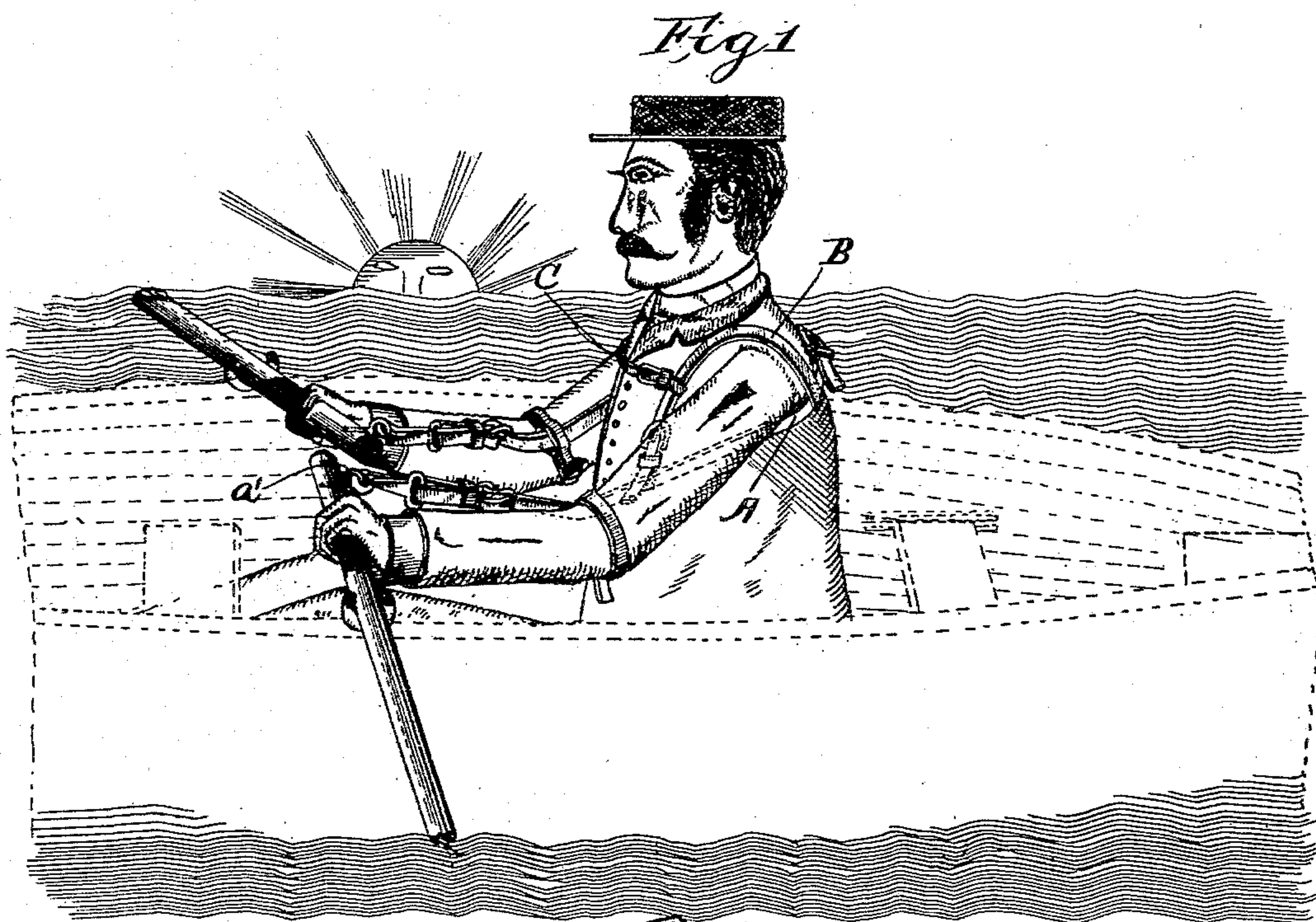


(No Model.)

F. F. MARTIN.
OARSMAN'S HARNESS.

No. 356,846.

Patented Feb. 1, 1887.



Witnesses
G. B. Lauria
Caripia Specht

Inventor;
Frank F. Martin
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Atty's

UNITED STATES PATENT OFFICE.

FRANK FRUCTUOSO MARTIN, OF GLOUCESTER, MASSACHUSETTS.

OARSMAN'S HARNESS.

SPECIFICATION forming part of Letters Patent No. 356,846, dated February 1, 1887.

Application filed October 4, 1886. Serial No. 215,309. (No model.)

To all whom it may concern:

Be it known that I, FRANK FRUCTUOSO MARTIN, a citizen of the United States, residing at Gloucester, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Oarsmen's Harness; 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 and figures of reference marked thereon, which form a part of this specification.

15 This invention consists in harness for oarsmen.

The object of the invention is the construction of a harness which can be readily applied to any oarsman, and which will assist materially and render light, comparatively, the task of rowing.

By my harness the weight of the oarsman can be utilized and made to assist in propelling the boat.

25 The advantage of the harness will be readily appreciated.

The improvement consists, essentially, in a back-strap which is designed to pass around the body and be connected at its ends with the oars, and the means for supporting and adjusting it to the wearer, all as more fully hereinafter set forth, claimed, and shown in the annexed drawings, in which—

30 Figure 1 is a perspective view of an oarsman clad in my harness, and Fig. 2 is a rear view of my harness.

The harness consists, essentially, of a back-strap, which may be made in one or two pieces, as desired, the latter construction being preferred, as it can be more readily adjusted to the size of the wearer. In this case the parts A A', which compose the strap, will be united by a buckle, as shown. The ends will be provided with any suitable means to connect them with the oars, and for this purpose I have shown them provided with a snap-hook, a, which is adapted to engage with an eye, a', fastened in the end of the oar. The snap-hooks are each held in a fold of the end,

which fold may be increased or diminished, as desired, to lengthen or shorten the strap to suit the size of the oarsman for which it is adapted. For this purpose the extreme end is provided with a buckle, a², which may be adjusted along on the strap in a manner well understood. 55

The shoulder-straps B are fastened at one end to the back-strap, and the other end is adjustably connected therewith at a distance from said end by a short strap, b, provided with a buckle, b'. The shoulder-straps are connected by the breast-strap C, which is fixedly secured to the one and adjustably connected with the other by the short strap c, provided with the buckle c'. 65

The back-strap is provided near each end with the arm-straps D, which are secured thereto in such a manner that they have a longitudinal movement thereon to adjust themselves to the bend of the arm. These straps serve to hold the back-strap close to the arm, and at the same time strengthen the arm against the thrust of the oar. 70

Having thus described my invention, what I claim, and desire to secure by Letters Patent, 75 is—

1. The herein-described harness for oarsmen, comprising the strap A, adapted to pass around the back of the oarsman and have its ends connected with the oars, the shoulder-straps B, for supporting the harness, and the arm-straps D, substantially as and for the purpose described. 80

2. The herein shown and described harness for oarsmen, consisting of the adjustable back-strap provided with means at each end for connecting it with the oars, the adjustable shoulder and breast straps for holding the harness in position upon the wearer, and the adjustable arm-straps adjustably connected with the back-strap, substantially as and for the purpose set forth. 90

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

FRANK FRUCTUOSO MARTIN.

Witnesses:

C. F. HOPKINS,

C. J. MARTIN.