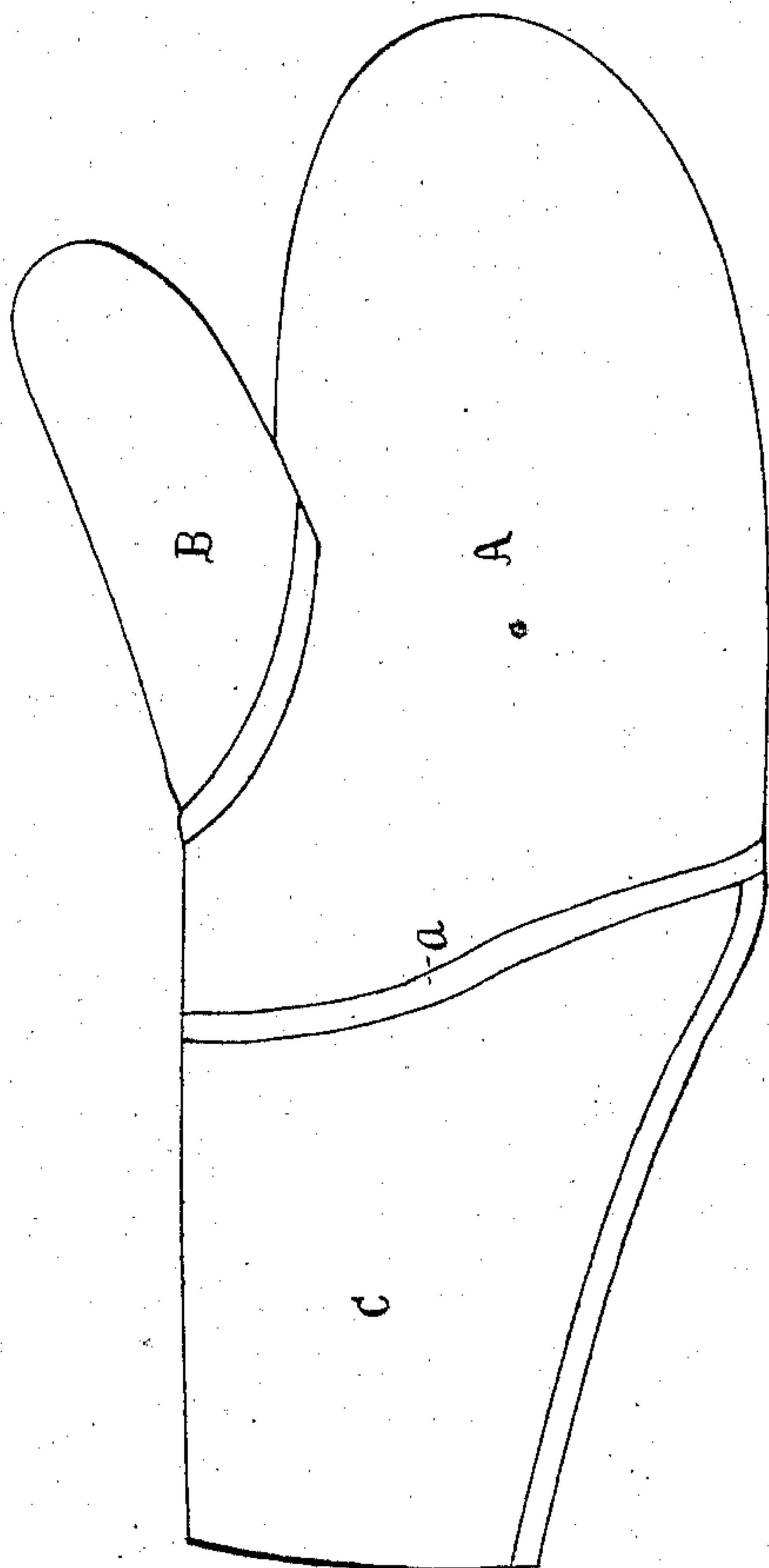


F. J. Meryman.

Mitten.

No 39665.

Patented Aug 25 1863.



Witnesses

R. H. Eddy

A. O. Hake, Jr

Fredrick J. Meryman

UNITED STATES PATENT OFFICE.

FREDERICK I. MERYMAN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN WATER-PROOF MITTENS FOR DIVERS.

Specification forming part of Letters Patent No. 39,665, dated August 25, 1863.

To all whom it may concern:

Be it known that I, FREDERICK I. MERYMAN, a citizen of the United States of America, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Water-Proof Mitten for Submarine Divers; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, which is an external view of the said mitten.

My invention consists of a new or improved manufacture of water-proof mitten made with an elastic sleeve or extension at the wrist to fit so closely about the arm at and above the wrist as to prevent water from being forced into the mitten while worn by a diver, though he may be submerged in water.

It frequently happens that a diver, while under water and incased in a water-proof armor or diving-dress inflated by or supplied with air by means of an air-forcing pump, suffers great inconvenience from his hands becoming chilled by exposure to the water, and, furthermore, when his hands may be wet they become more or less tender and are easily injured by the things required to be handled by the diver while in the water, and this even when they may be incased in gloves such as divers usually wear. With my improved mitten the water will be entirely prevented from gaining access to the hand when incased by it, as the sleeve or elastic extension of the wrist of the glove is calculated to extend up the arm of the diver so far and fit to it so closely that when the sleeve of the diver's armor is fast-

ened and strapped to the sleeve or extension of the wrist of the glove or mitten the water will be completely excluded from such glove or mitten.

In the drawing, A denotes the hand-case of the mitten, while B is the thumb-case, the wrist part being shown at *a* and the whole being water-proof. From the said part *a* a tapering elastic tube or short sleeve, C, extends, as shown in the drawing, and is also to be water-proof and readily expansible to such an extent as not only to enable a diver to introduce his hand into it and into the mitten, but that such sleeve shall afterward so contract about that portion of the arm which is immediately above the wrist as to prevent the ingress of water into the mitten when it and the arm are submerged.

I am aware that mittens or gloves have been made water-proof. I am also aware that knit or woven mittens or gloves not water-proof, have been made elastic at the wrist. Therefore I do not claim a mitten or glove so made; but

What I do claim as my invention is—

The improved manufacture of water-proof mitten as made with the water-proof and elastic sleeve or wrist extension C to so close on and fit to the arm of a diver as to prevent water from gaining access to the interior of the said mitten or glove while being worn and submerged.

FREDERICK I. MERYMAN.

Witnesses:

R. H. EDDY,
F. P. HALE, Jr.