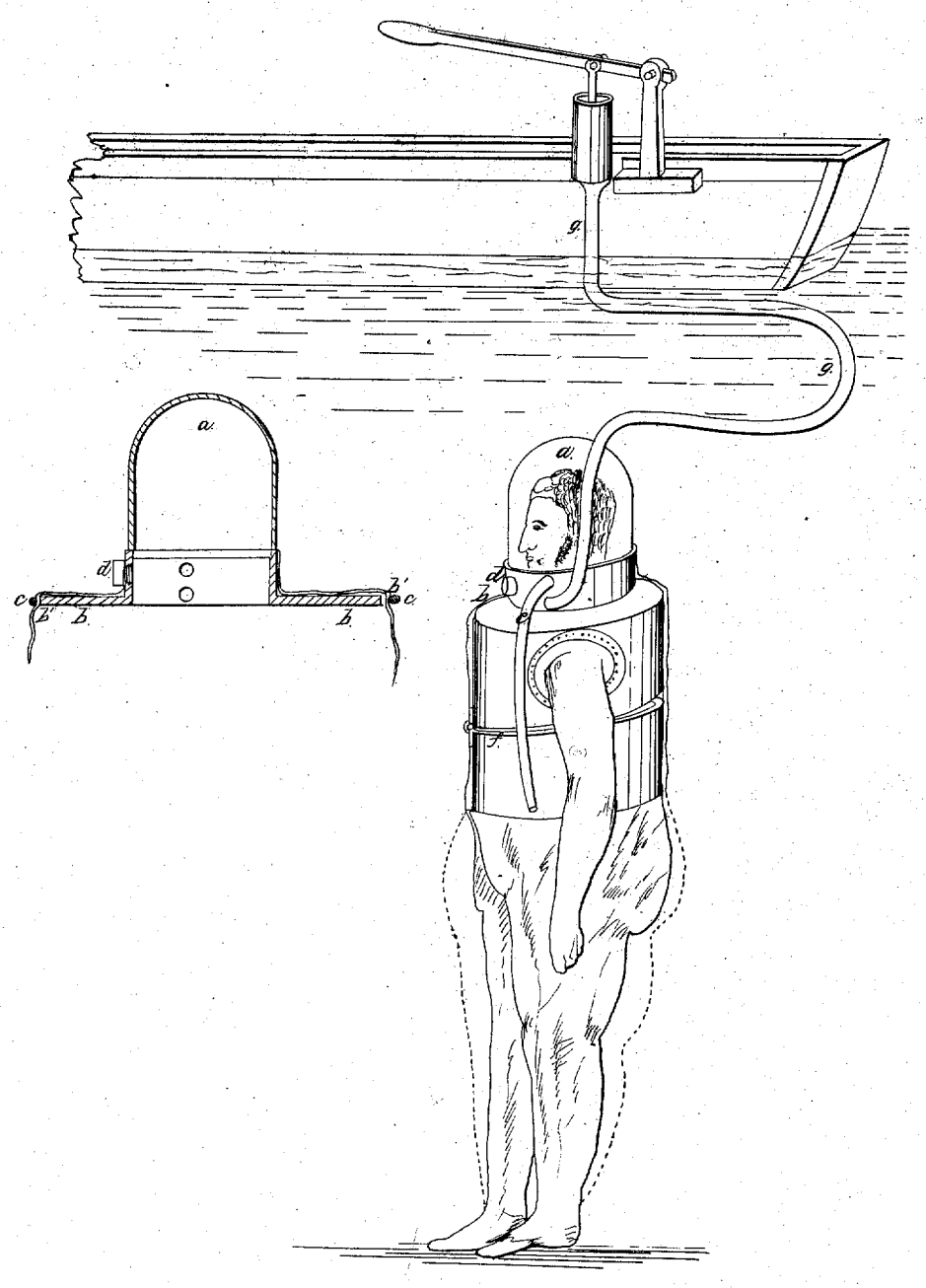
9270X

J. R. Cambell.

Diving Dress.

Patented Nov. 30, 1836.



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John A Campbell of Boston Mass

Letters Patent.

The Schedule referred to in these Letters Patent and making part of the same containing a description of the invention of the said John Read Campbell himself of his improvement in the Diving Dress.

To all to whom these presents shall come. Be it known that I John Read Campbell of Boston in the County of Suffolk and State of Massachusetts, have invented a new and useful improvement in the diving dress. and that the following is a full and exact description of the construction and operation of said improvement, as invented by me. it being understood that it is an improvement on the dress as said already patented by Nathaniel Worthington of Sidney in the County of Delaware and State of New York. on the seventeenth day of April 1834 under the letters of a diving suit which patent in all its right and titles was assigned over to me the Nineteenth day of July 1835 and duly recorded August 4th 1835 in the Patent office.

One part on which I improve is the covering for the head, and to effect this I throw off the Indian Rubber or Gum Elastic of which the cap as well as the rest of the dress is composed and substitute in its place a cap of Glass. that there may be an uninterrupted means of seeing around the diver not provided for in the old suit and this will be the means of preventing the risk of fatal accidents from entangling of the cords or ropes attached to the diver and also throughout the country. The cap of Glass is to descend as low down the face as desired. say to within a short distance of the shoulders where it will be united to a copper band which will then after descending some short distance below said junction, curl out again by a reclangular lip sufficiently protracted to fill up the opening which is left when the Rubber cap may displaced and which must be large enough to allow the body

Drawing Inside

to enter the dress feet foremost. The size of the opening is
sufficiency as the cloth cannot well be safely to the diver be stretch
ened or gathered up around the rim, because to force the
face, that is the cloth round the rim so as to be water tight, a
groove is made all round the rim [illegible] on the circumfer-
ence thereof round the cloth being brought above it, another
circular and rounded hoop is clasped tightly on so as to fill up
the groove, and therein retain the cloth firmly to prevent leak
age. Into the Corpse Band beneath the junction with the
glass is formed a round hole to be closed with a screw lapse so as
that it may be removed at pleasure on arriving at the top of the
water. So as to be able to remove through the opening, and upon
side of it are to be formed two holes, [illegible] one above the other, the top one is intended to receive
the end of a flexible tube, to be screwed fast into it, which tube
has the other end left open and dangling in the water, for
the purpose of allowing the impure air to escape. It is also used
as a regulator from that law of fluids, by which they seek a
level as is demonstrated in the juncture of two pipes, one
large and the other small, wherein the fluid will stand at
the same height in each. So with the regulator for as it is
round, by the name of the diver, so will be the corresponding one
in the air contained in the dress, and as he will then have
it less inflated, he will sink should he depress the end
of the tube, then the air in the dress will descend to in-
flate it and he will consequently sink. Beneath the dress
I add cylindrical case of metal which the diver occupies by
stepping into its open end, so that his head shall
project from the upper one, which is open also and opposite
his shoulders are holes for his arms to pass through the whole
case of course resting on these points on his shoulders.
It descends to about his hips and therefore presents no cover-
ing to his legs, nor to his arms which are thus at perfect

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Liberty. It is also furnished with a groove on the surface of the cylinder so as to allow a motion forward or to sleeve. This is to prevent accident from the sudden extraction of the air lest the Body might be compressed. The lower tube hole has a tube screwed into it, the other end of which leads to the top of the water and there receives the air by compression from an air pump or other contrivance

What I claim as my invention and for which I now ask Letters Patent is the combination of the cup of glass with the Rubber dress and the use of the metal Cylinder according to the plan set forth. In testimony that the above is a full description of the construction and use of my improvement. I have hereunto set my hand this twelfth day of November Eighteen Hundred and thirty five

Witnesses
H. Wharton
Henry Stone

J. P. Campbell

(948 Words)

Received Dec