

J. T. REID.

SUBMERGIBLE CARGO CARRIER OR TRANSPORT.

APPLICATION FILED SEPT. 21, 1917. RENEWED JAN. 10, 1919.

1,312,356.

Patented Aug. 5, 1919.

Fig. 1.

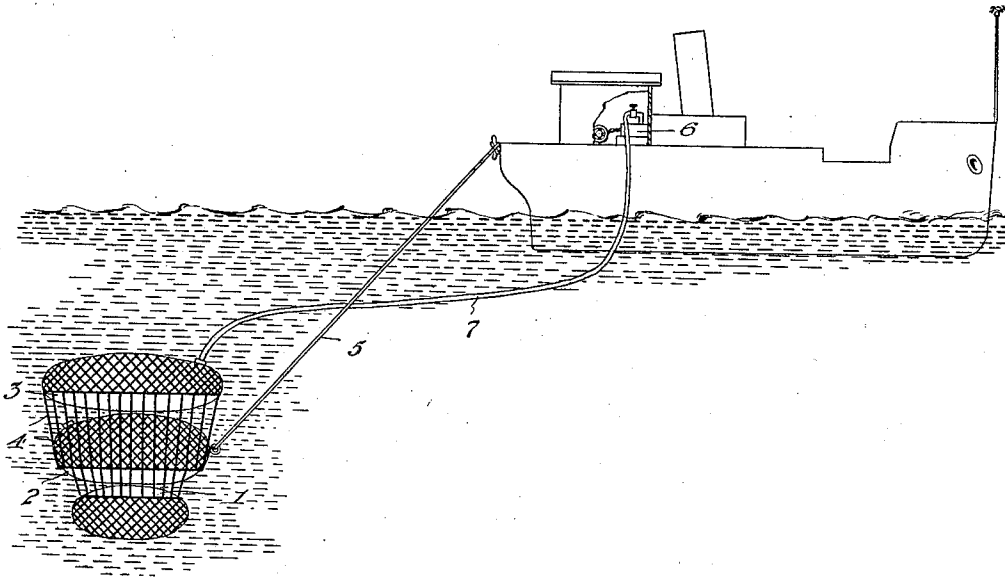
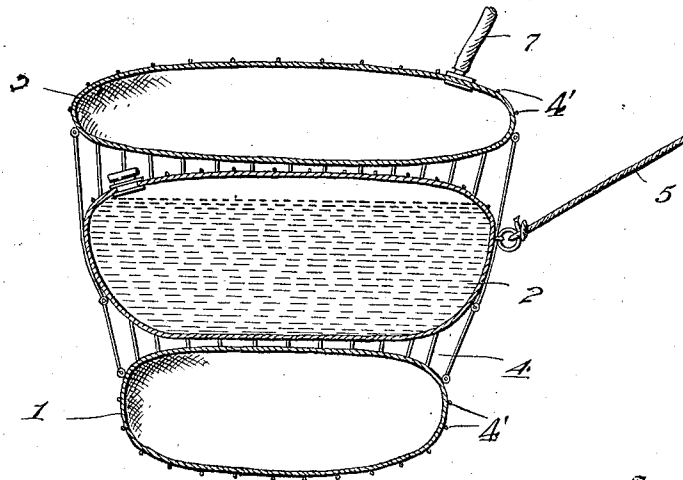


Fig. 2.



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SUBMERGIBLE CARGO CARRIER OR TRANSPORT.

1,312,356.

Specification of Letters Patent.

Patented Aug. 5, 1919.

Application filed September 21, 1917, Serial No. 192,535. Renewed January 10, 1919. Serial No. 270,587.

To all whom it may concern:

Be it known that I, JOHN T. REID, a citizen of the United States, residing at Lovelock, in the county of Humboldt and State of Nevada, have invented new and useful Improvements in Submergible Cargo Carriers or Transports, of which the following is a specification.

This invention relates to new and useful improvements in submergible cargo carriers or transports, and the principal object of the invention is to provide a carrier which may be submerged to a level where it will not be subjected to the action of the waves.

Another object of the invention is to provide an oil container for sustaining the cargo carrier in the water and to provide an air reservoir with means for controlling the amount of air therein for regulating the position of the elements in the water.

Another object of the invention is to provide a device of this character which is simple and durable in construction, reliable and efficient in operation and one which can be manufactured and placed upon the market at a minimum cost.

The invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 diagrammatically indicates a transport or carrier according to the present invention, being towed by a vessel.

Fig. 2 is a longitudinal vertical section through the carrier.

In carrying out my invention I form the transport of a plurality of receptacles or containers which may be made of any suitable material, such for instance as heavy canvas or other flexible water proof material, with or without a lining to make the same impervious to water under pressure. One of

these containers, preferably the bottom one, indicated by the reference numeral 1, is to contain the cargo. The weight of this cargo is sustained in the water by filling the receptacle 2 with oil or other liquids whose specific gravity is less than water. The third receptacle 3 is adapted to contain air. The three containers are preferably connected together, by means of the ropes 4 secured to the netting 4' which is similar to that used in securing the gas bags of balloons to the baskets. The transport is to be towed and for this purpose I provide the tow line 5 which is preferably secured to the center container 2 and I also locate an air pump 6 on the vessel from which a tube 7 leads to the air container 3 and I provide means for regulating the supply of air in said container so that when it is desired to submerge the transport a certain quantity of air is released therefrom, thus allowing the transport to submerge. When it is desired to bring the transport to the surface, air is pumped into said container until the weight of the cargo is overcome and the transport will rise to the surface.

While I have shown the transport as composed of separate containers connected together by the rope webbing, it will be understood that said transport may be made of one large compartment which will be divided into smaller compartments for containing the oil and air and the cargo.

It will be understood that the cargo container may be weighted to the extent of overcoming the difference in specific gravity of the oil and sea water in which it is used.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make slight changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. A carrier of the class described comprising an oil container, a cargo container flexibly connected therewith and means for regulating the buoyancy of the same.

2. A carrier of the class described comprising an oil container, a cargo container flexibly connected therewith, an air container, and means for regulating the amount
5 of air in said container. and an air container, flexible means connecting said containers together, and means for regulating the amount of air in said air con- 10 tainer.

In testimony whereof I affix my signature.

JOHN T. REID.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."