

(No Model.)

H. SCHUYLER.

APPARATUS FOR RAISING SUNKEN VESSELS.

No. 287,586.

Patented Oct. 30, 1883.

Fig. 1.

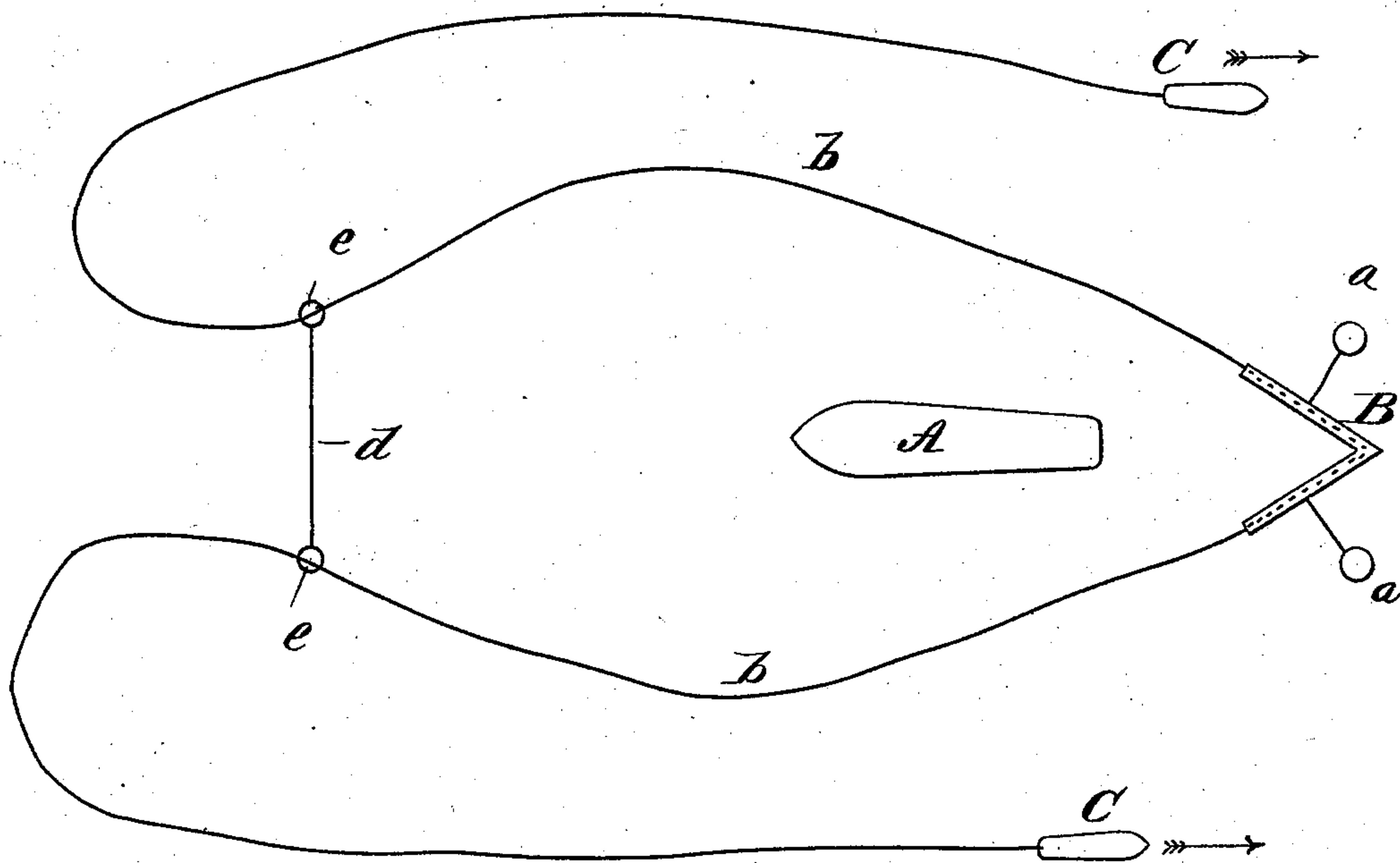
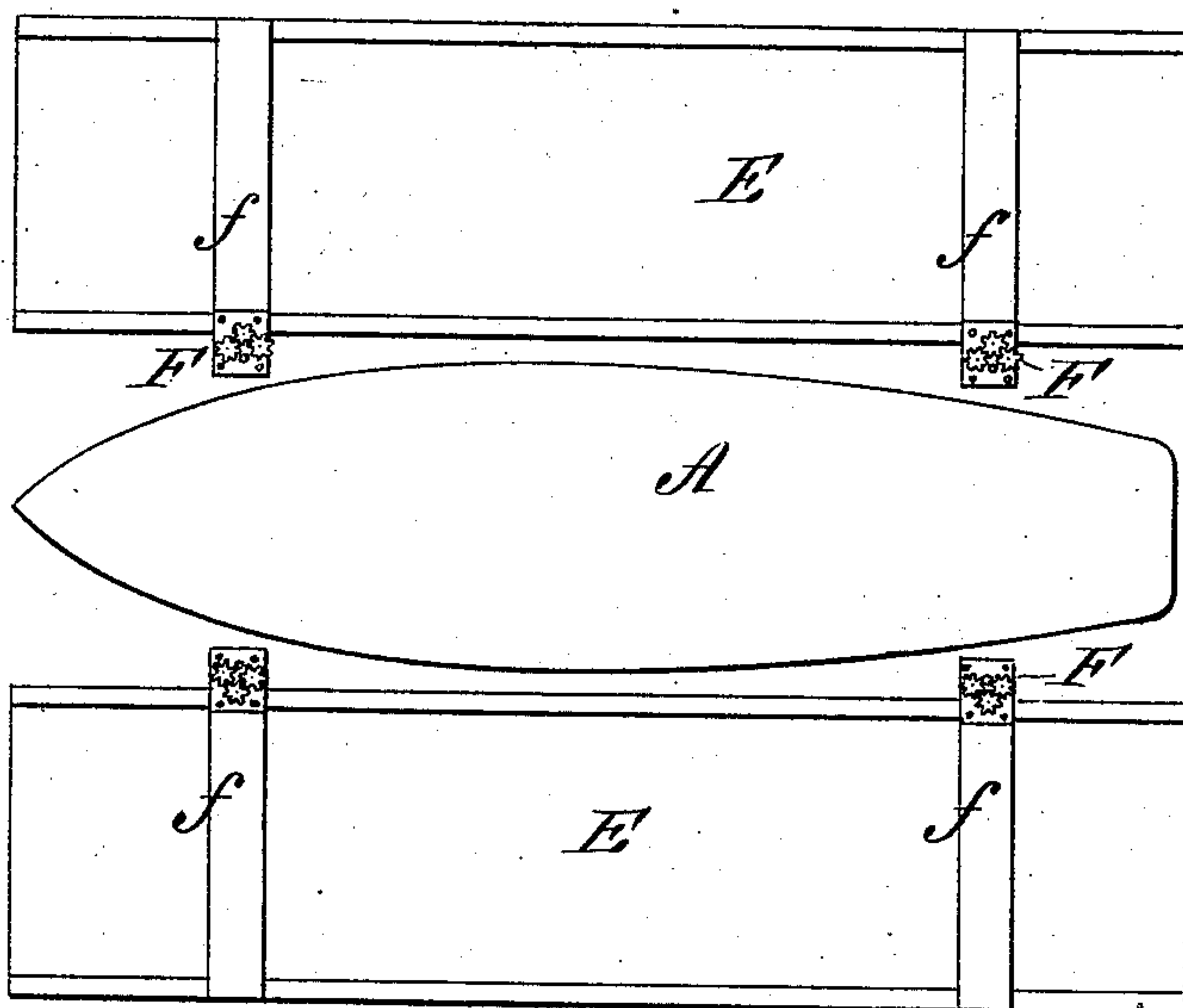


Fig. 2.



WITNESSES:

Donn Twitchell
W. Sedgwick

INVENTOR:

H. Schuyler
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY SCHUYLER, OF STURGEON BAY, WISCONSIN.

APPARATUS FOR RAISING SUNKEN VESSELS.

SPECIFICATION forming part of Letters Patent No. 287,586, dated October 30, 1883.

Application filed January 22, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY SCHUYLER, of Sturgeon Bay, in the county of Door and State of Wisconsin, have invented a new and Improved Apparatus for Raising Sunken Vessels, of which the following is a full, clear, and exact description.

The object of my invention is to provide means for raising sunken vessels foundered in deep water, where it is difficult to obtain a hold upon the vessel by the means usually employed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a view illustrating the manner of engaging the lifting-chains with the vessel. Fig. 2 is a plan view of the hoisting-scows with a raised vessel between them.

A represents a vessel to be raised, and B a chain-float constructed of timber and provided with buoys *a a*, which are arranged to float the chains clear of the bottom a distance of, say, three or four feet. *b b* are chains of suitable length, connected to the float B, and extending to the tug-boats shown at C. The chains *b* are to be of suitable length, so that they may be dropped at a sufficient distance from the vessel to clear all projecting booms, &c. The chains *b* are connected by a short chain, *d*, which has rings *e* at its ends of a sufficient size for sliding loosely upon the chains *b*. The said chains *b* are to be lowered from the tug-boats into the water when they have been removed a sufficient distance from the sunken vessel. The position of the chain *d* and of the timber float B and the manipula-

tion of the tug-boats are represented in Fig. 1. By the forward movement of the boats the chain *d* is drawn beneath the vessel, and the float B is also drawn toward the vessel, so that a cradle is thus formed around the hull of the vessel, and a firm hold is obtained for the chains.

E E, Fig. 2, are the scows carrying the hoisting devices, of some suitable construction. The scows are to be anchored in position over the vessel, as illustrated in Fig. 2, and the chains *b* are to be connected with the hoisting devices F, that are fixed upon the projecting ends of timbers *f*, so that a direct lift can be made.

With the above-described apparatus vessels sunken in deep waters can be raised without difficulty and without great expense. A hold upon the vessel being obtained in the manner described above, the subsequent part of the work will be comparatively easy. The main object of this invention is to facilitate getting a proper hold upon the vessel.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with scows or boats C C, a timber float, B, having buoys *a* at each side, and a cross-chain, *d*, provided with sliding end rings, *e*, of the two chains *b b*, extending from the float through the rings of chain *d* and to the boats C, whereby a secure hold may be obtained on the sunken vessel, so as to raise it with certainty, as described.

HENRY SCHUYLER.

Witnesses:

WM. A. LAWRENCE,
P. G. WRIGHT.