C. A. FORSSELL.

PONTOON BRIDGE.

APPLICATION FILED OCT. 6, 1910.

981,991. Patented Jan. 17, 1911.

Fig. 1

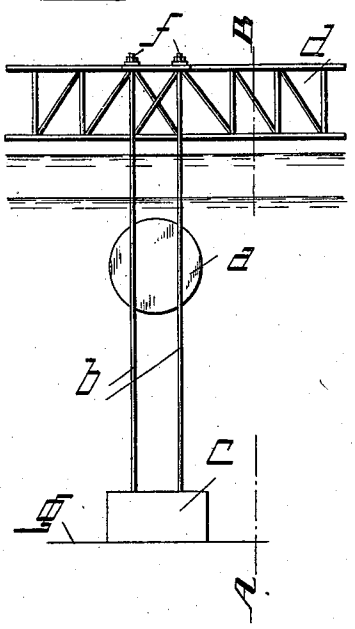
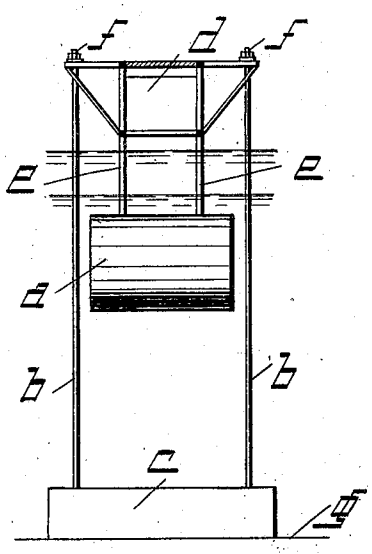


Fig. 2



WITNESSES:

Jos. G. Denny Jr

Robt. R. Fletcher

INVENTOR

Carl Abraham Forssell

BY

Charles N. Breslin

ATTORNEY.

UNITED STATES PATENT OFFICE.

CARL ABRAHAM FORSSELL, OF STOCKHOLM, SWEDEN.

PONTOON-BRIDGE.

981,991. Specification of Letters Patent. **Patented Jan. 17, 1911.**

Application filed October 6, 1910. Serial No. 585,556.

To all whom it may concern:

Be it known that I, CARL ABRAHAM FORSSELL, engineer, a citizen of Sweden, and a subject of the King of Sweden, and resident of 10 Lästmakaregatan, Stockholm, in the Kingdom of Sweden, have invented certain new and useful Improvements in Pontoon-Bridges; and I do hereby 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 letters or figures of reference marked thereon, which form a part of this specification.

The present invention relates to pontoon bridges having the pontoons submerged below the water surface and anchored to weights or fixed points at the bottom.

The invention consists therein that the anchoring stays between the weight on the bottom of the fixed points and the pontoon bridge are secured to the latter at a point situated above the water surface or just below the same. The connection suitably is of such art as to enable the securing devices being adjusted, whereby the height of the bridge-beams may be altered.

The invention is illustrated in the accompanying drawing, where Figures 1 and 2 show a part of a pontoon bridge respectively from the side and in cross-section on the line A—B.

a indicates the pontoon, which is submerged into the water and which by the stays *b* is anchored to the weight *c* resting on the bottom *g*.

e is a supporting column, by which the bridge-beam *d* rests on the pontoon.

The stays *b* are secured to the bridge-beams at *f* lying above the water-surface. Suitably the securing devices consist in a screw- or wedge-connection or the like, enabling them to be adjusted, whereby the whole bridge can be adjusted in relation to the fixed points.

Of course the stays may, if desired, be secured in a similar manner to the supporting columns *e* above or just below the water surface.

Claims.

1. In pontoon bridges with submerged pontoons, members connecting the fixed points on the bottom with a point of the bridge lying above or immediately beneath the water surface.

2. In pontoon bridges with submerged pontoons, members connecting the fixed points on the bottom with the bridge, said members being connected with the bridge by adjustable means.

3. In pontoon bridges with submerged pontoons, members connecting the fixed points on the bottom with a part of the bridge lying above the water surface, said members being connected with the bridge by adjustable means.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

CARL ABRAHAM FORSSELL.

Witnesses:
T. HENRIKSSON,
HARRY ALBIHN.