G. E. JUPP.

LEAK STOPPER.

APPLICATION FILED NOV. 17, 1914.

1,153,796. Patented Sept. 14, 1915.

Fig. 1.

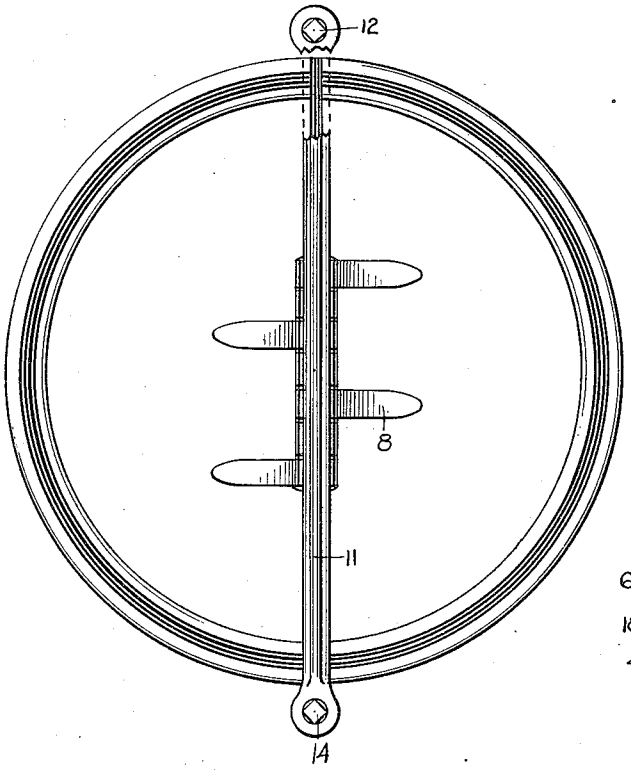


Fig. 2.

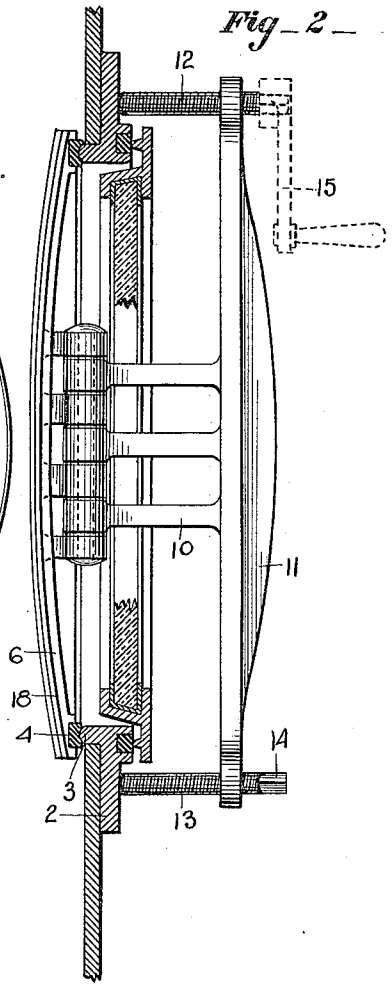
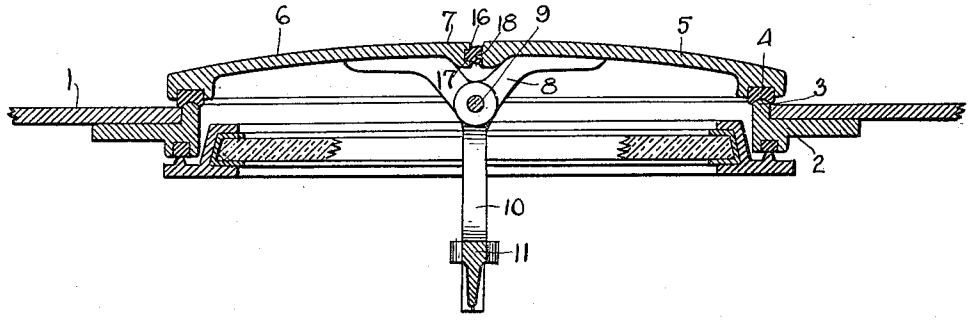


Fig. 3.



WITNESSES

Frank C. Palmer.

A. L. Ritchin.

INVENTOR

George E. Jupp

BY Munn & Co.

ATTORNEYS

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE E. JUPP, OF NEW YORK, N. Y.

LEAK-STOPPER.

1,153,796. Specification of Letters Patent. Patented Sept. 14, 1915.

Application filed November 17, 1914. Serial No. 872,637.

To all whom it may concern:

Be it known that I, GEORGE E. JUPP, a subject of the King of England, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Leak-Stopper, of which the following is a full, clear, and exact description.

This invention relates to improvements in leak stoppers, and has for an object to provide an improved construction designed to be temporarily used for closing portholes or openings of any kind in the side of a ship, the same being placed in position from the interior of the ship.

Another object in view is to provide an improved temporary covering for broken porthole structures, the same being adapted to be applied and removed quickly and easily from the interior of the ship.

A further object in view is to provide an improved covering for a hole in the side of a ship which may be readily folded into a small package and inserted through the hole and afterward expanded so as to properly cover the hole and thereby prevent the entrance of water or other matter.

In the accompanying drawings—Figure 1 is a view of a leak stopper or covering embodying the invention, the same being viewed from the interior of the ship; Fig. 2 is a longitudinal vertical section through a porthole structure and associated parts, an embodiment of the invention being shown in connection therewith; Fig. 3 is a section through Fig. 2 approximately on line 3—3.

Referring to the accompanying drawings by numerals, 1 indicates part of the side of a ship and 2 the usual framing for a porthole which includes the usual glass and supporting members. These may be of any usual or preferred construction. In the drawings part of the frame 2 is formed with with an annular member 3 which is designed to be engaged by an annular packing member 4, preferably formed of rubber and secured to the sections 5 and 6 of the leak stopper or cover 7. The packing may not be absolutely annular as it is preferably divided at the point that sections 5 and 6 come together. The sections 5 and 6 are connected together by a hinge 8, which hinge is held together by a pintle 9, and which hinge also accommodates the arms 10. A cross bar or brace 11 is preferably formed integral with arms 10, which cross bar receives the threaded members 12 and 13. The threaded members 12 and 13 are preferably square at 14 for receiving a suitable wrench 15 in order that the cross bar 11 may be pulled or forced forwardly and thereby cause the parts 5 and 6 to press against the side of the ship or against the annular member 3. It will be evident that if the cover 7 was considerably larger than the porthole the packing 4 would press against the side 1 of the ship and effectually prevent the entrance of water through the porthole. A packing 16 preferably of rubber is arranged between sections 5 and 6, the same being embedded in a suitable groove 17 in section 6 and engaged by a suitable bead 18 extending from section 5.

When it is desired to remove the cover or leak stopper 7, the members 12 and 13 are operated until they are entirely removed or almost removed, and then the entire structure is moved longitudinally or parallel of the side 1 until the end of the bar 11 may be thrust through the porthole. The parts are then folded exteriorly of the ship and while in a folded condition are drawn into the ship through the portholes. To apply the cover or leak stopper a reverse movement is necessary.

The device is intended especially for closing broken portholes or other holes from the interior of the ship, but it is evident that the device may be placed in position from the exterior of the ship, bar 11 being on the outside, without departing from the spirit of the invention. This is desirable where a ship is loaded with grain or some other material which would make it difficult for a person to reach the porthole or opening in the ship.

What I claim is—

1. In a device of the character described, a pair of plates, a hinge connecting said plates, a plurality of upstanding arms journaled on the pintle of said hinge, a cross bar rigidly secured to said arms, tension screws arranged on the ends of said cross bar, an annular packing member connected with said plate, said annular packing member being embedded in the plate, and a packing member arranged at the hinged connection of the parts of said plate.

2. In a device of the character described, a pair of plates, a hinge connecting said

plates, parts of said hinge being connected by a pintle, said parts being spaced apart, a plurality of upstanding arms extending between said parts and journaled on said pintle, a cross bar rigidly secured to said arms, and tension screws arranged on the ends of said cross bar.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE E. JUPP.

Witnesses:
CHAS. S. PHILIPPS,
ALLEN LUCKHURST.

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