

(No Model.)

S. GEYER.
DUMPING DEVICE FOR VESSELS.

No. 461,606.

Patented Oct. 20, 1891.

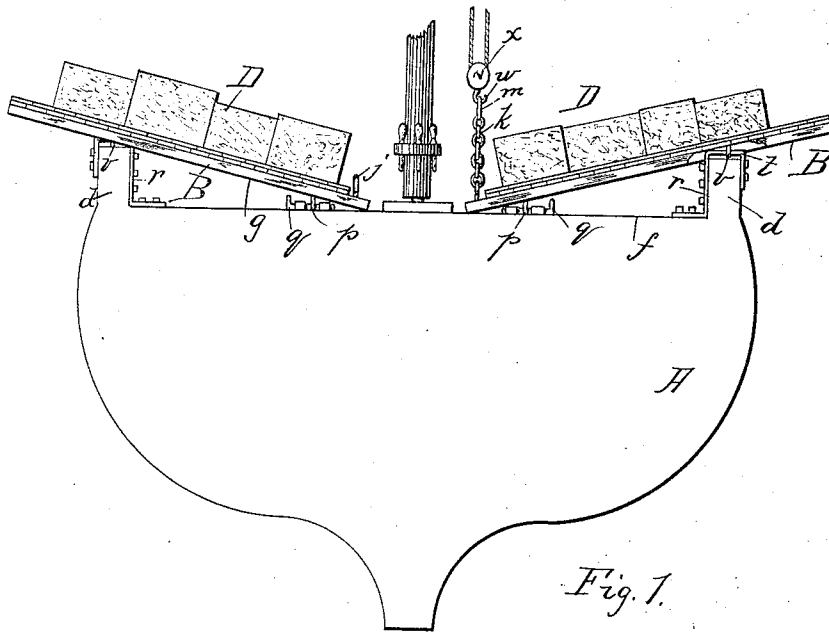


Fig. 1.

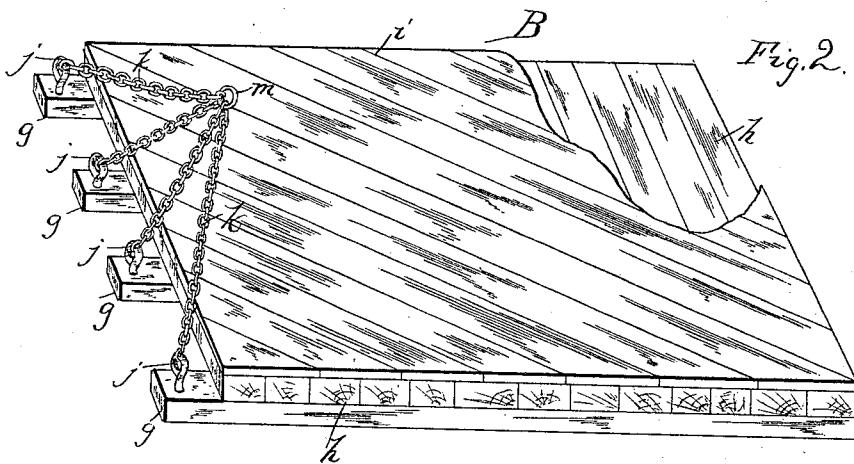


Fig. 2.

WITNESSES

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DUMPING DEVICE FOR VESSELS.

SPECIFICATION forming part of Letters Patent No. 461,606, dated October 20, 1891.

Application filed June 1, 1891. Serial No. 394,628. (No model.)

To all whom it may concern:

Be it known that I, SCOTT GEYER, of Rockport, in the county of Essex, State of Massachusetts, have invented certain new and useful Improvements in a Dumping Device for Vessels, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an end elevation of a lighter provided with my improved dumping device; Fig. 2, a perspective view of one of the platforms.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to means for dumping or unloading the deck-loads of lighters or similar burdensome vessels, it being particularly adapted for use for unloading granite blocks or stone in building breakwaters.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the lighter considered as a whole, which may be of any suitable form and construction and provided with any suitable propelling-power. A series of platforms B are pivoted to the rail or bulwark *d* of the lighter, their inner ends resting upon the deck *f* and their outer ends projecting over said rails. Any number of these platforms may be employed. The platforms are preferably constructed of four beams *g*, arranged in parallelism and planked laterally at *h*, a diagonal course of sheathing or facing *i* being secured to said planking. The ends of

the beams project beyond the planking and are provided severally with screw-eyes *j*, in which chains *k* are secured, said chains being connected by a ring *m*. On the under side of the beams *g* eyes *p* are secured, through which a bolt *q*, working in suitable eyes on the deck *f*, may be passed to fasten the platforms in position. Straps *r*, bolted to the rails, pass over the top thereof and form loops *t*, in which eyes *v* on the beams work, said loops and eyes forming the hinges for said beam. The platforms, when disposed in this position on the lighter, receive the load of granite or other material D instead of disposing the same on the deck *f* in the ordinary manner.

To dump the load, the bolts *q* are withdrawn, freeing the platforms, and the hook *w* of a sheave-block *x*, running on a derrick-rope in the ordinary manner, is inserted in the ring *m*. The inner end of the platform is elevated by this means until above the plane of the rail, when the load on said platform will readily slide therefrom into the water.

It is designed to elevate the platform at opposite sides of the vessel conjointly, in order to prevent the same careening should the load be discharged at one side only.

Having thus explained my invention, what I claim is—

The vessel A, having rail-loops *t*, the platform B, provided with the eyes *v*, working in said loops, mechanism for securing the inner end of said platform to the vessel-deck, and the lifting-chains *k*, secured to said platform, all being arranged to operate substantially as described.

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Witnesses:

ZENO A. APPLETON,
ASA F. TARR.