

(No Model.)

F. SCRIPTURE.

DUMPING SCOW.

No. 335,316.

Patented Feb. 2, 1886.

Fig. 1.

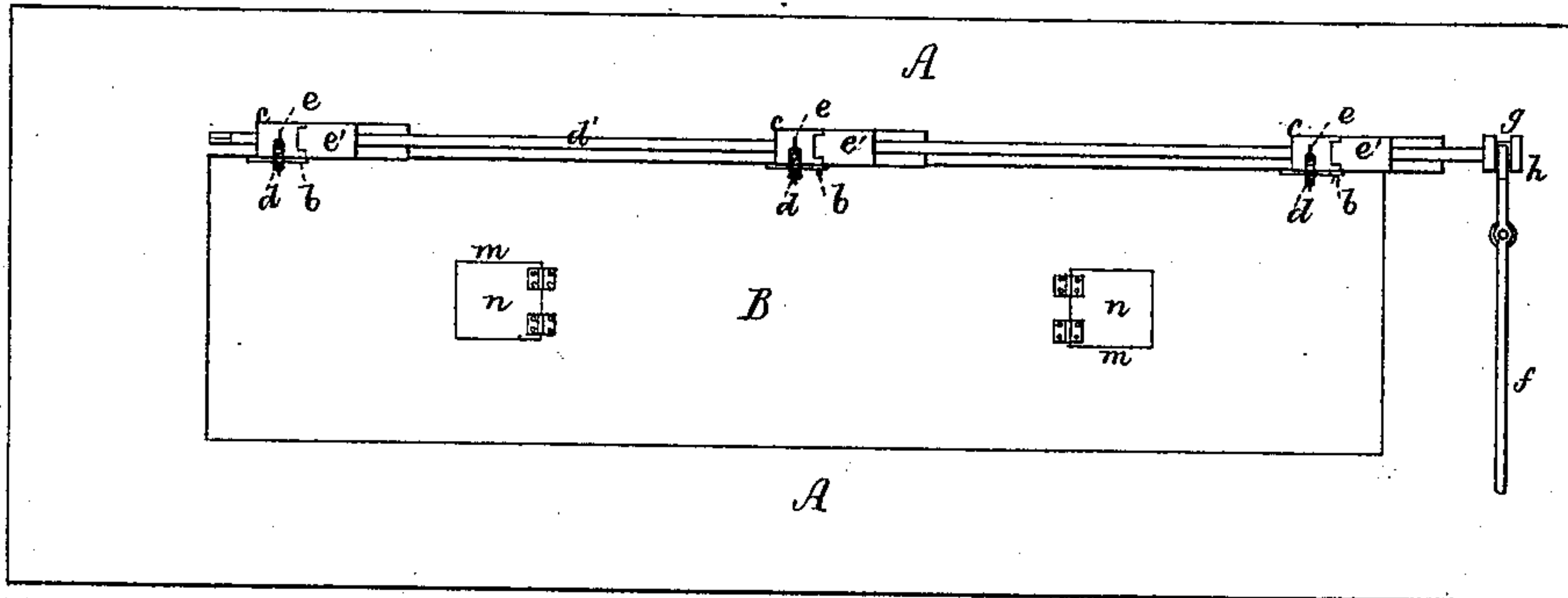


Fig. 2.

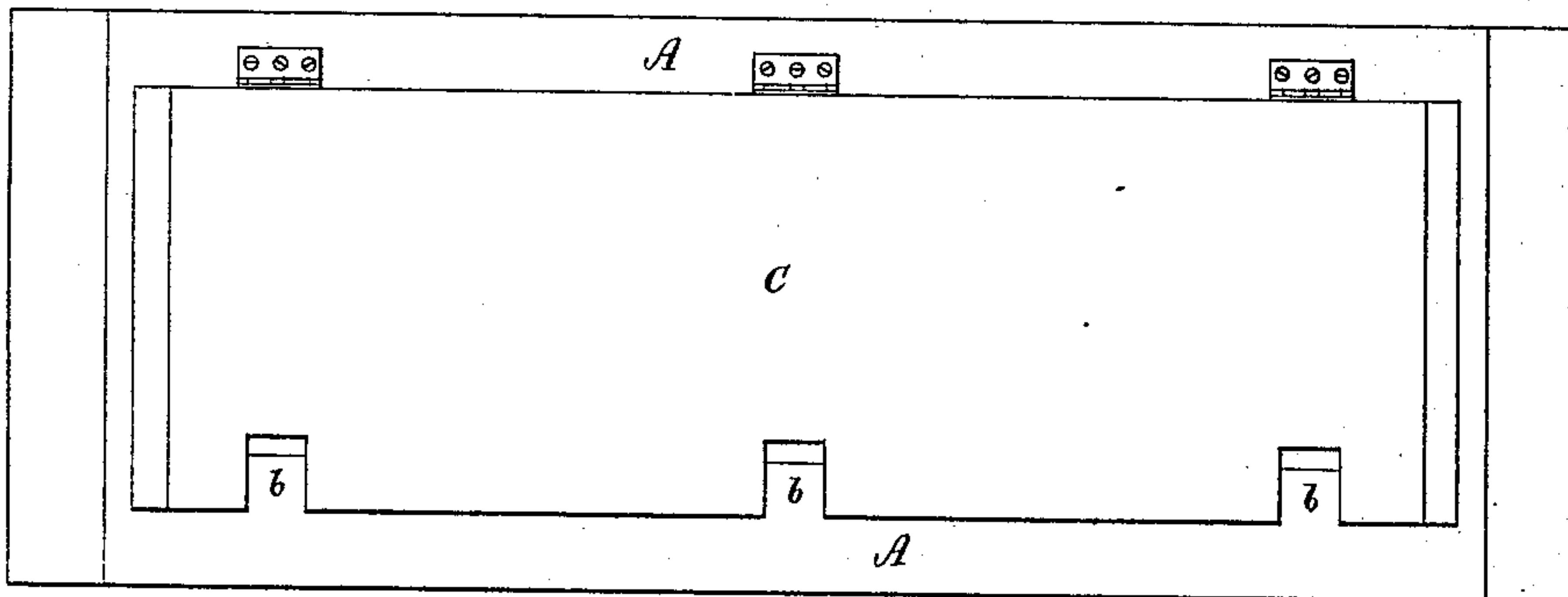


Fig. 3.

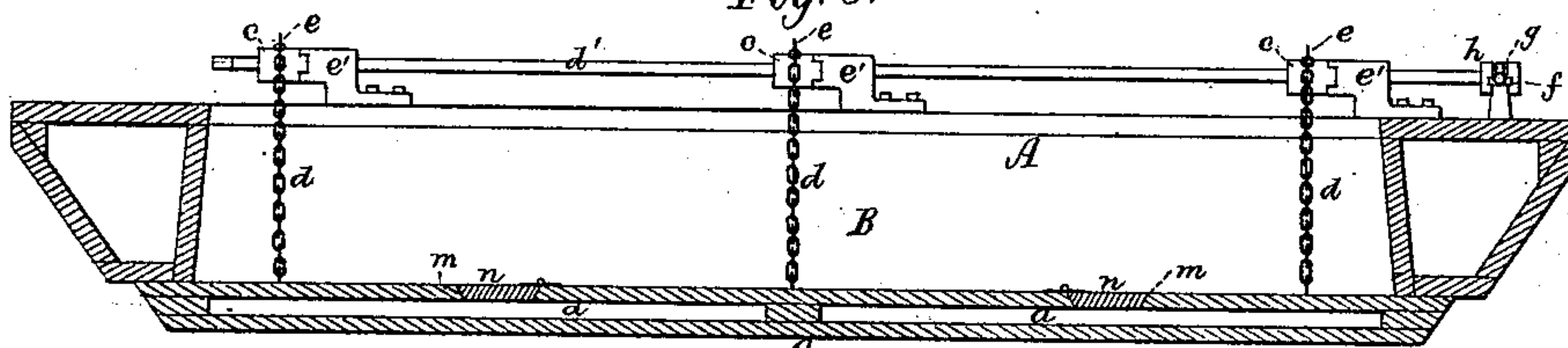
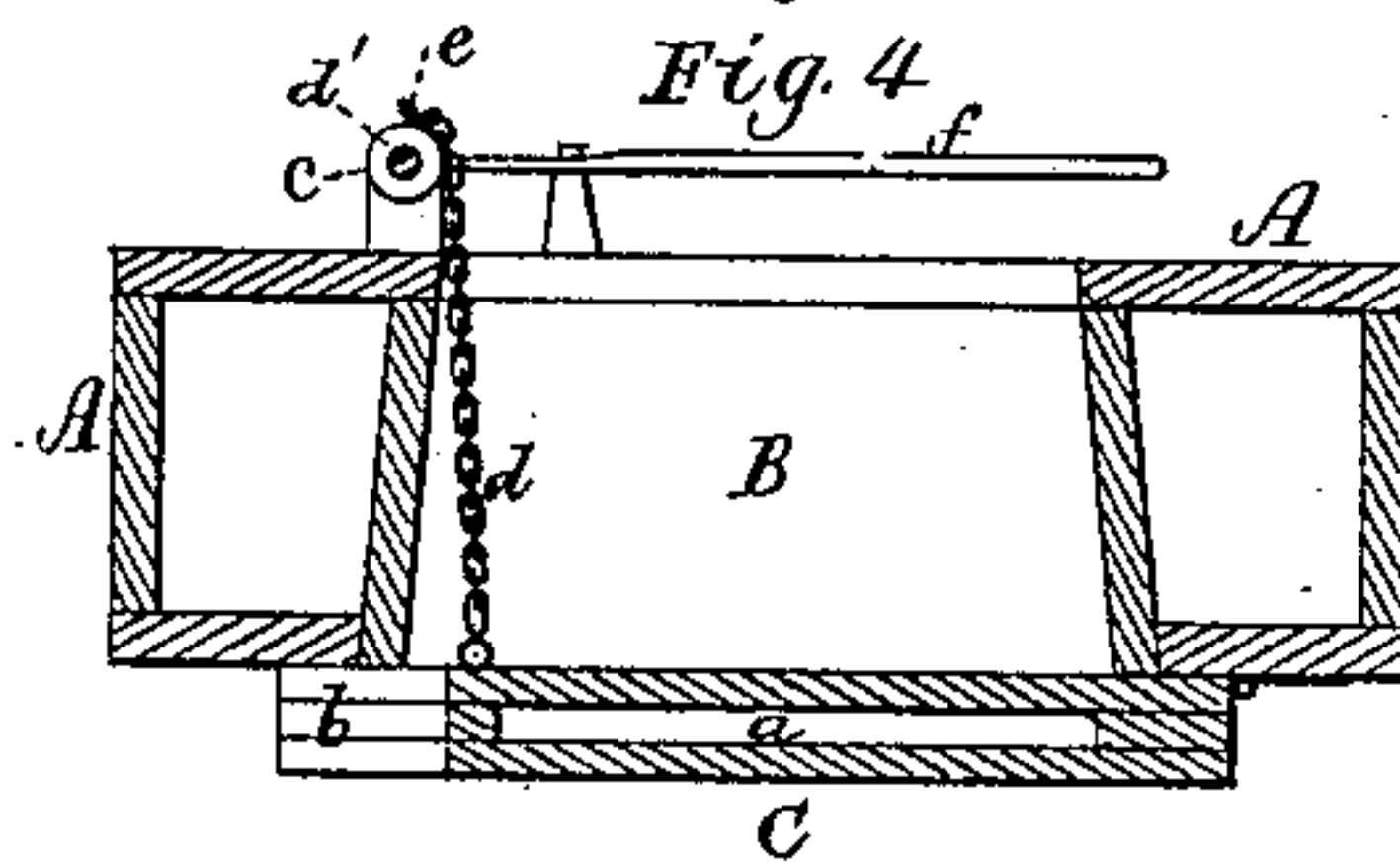


Fig. 4.



Witnesses.
S. N. Piper.
W. B. Torrey.

Inventor.
Frank Scripture.
by R. H. Sully atty.

UNITED STATES PATENT OFFICE.

FRANK SCRIPTURE, OF ROCKPORT, MASSACHUSETTS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO HIMSELF AND JAMES SWIFT ROGERS, OF SAME PLACE.

DUMPING-SCOW.

SPECIFICATION forming part of Letters Patent No. 335,316, dated February 2, 1886.

Application filed November 23, 1885. Serial No. 183,703. (No model.)

To all whom it may concern:

Be it known that I, FRANK SCRIPTURE, of Rockport, in the county of Essex, of the Commonwealth of Massachusetts, have invented
5 a new and useful Improvement in Dumping-Scows: and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

10 Figure 1 is a top view; Fig. 2, a bottom view; Fig. 3, a longitudinal and median section; and Fig. 4, a transverse and median section of a scow having my invention, the nature of which is defined in the claims hereinafter
15 presented.

In this scow the body A is chambered entirely around the hold B, the latter being open at bottom. To the bottom of the body there is hinged a door, C, which has with-
20 in it one or more air-tight chambers, *a*, to render it floatable, or to cause it to be self-closing immediately after a load may have been discharged from the hold through the bottom thereof. The said door has a series of notches
25 or recesses, *b*, made in it, as shown, from its free longer edge, each of said notches being extended a short distance in rear of the next adjacent side of the hold. To the door, close to the rear part of each notch, one of
30 a set of chains, *d*, is fastened. Each of these chains, prior to loading the scow, is to be hitched upon one of three hooks, *e*, projecting from three clutch-sections, *c*, fixed upon a long shaft, *d'*, supported in boxes *e'*, fixed to the
35 deck of the scow. Each box answers not only as a box to support the shaft, but as another and stationary clutch-section, it serving, when in engagement with its fellow or movable clutch-section *c*, to prevent the shaft *d'* from
40 revolving. A lever, *f*, fulcrumed to the deck and furcated to extend into the groove *g* of a cylindrical head, *h*, fixed on the shaft *d'* at one end thereof, serves to slide the shaft to engage and disengage the movable section of
45 each clutch with its fellow or stationary section.

On the scow being loaded and moved to a position for having the load discharged or dumped, the shaft *d'* is to be moved to disen-
50 gage the movable clutch-sections from the stationary sections, which taking place the door

with the load upon it will fall, the shaft will be revolved, the chains will be drawn off the hooks, the load will be discharged by its own gravity from the hold, after which the door 55 will immediately turn upward to place, and the chains will be hanging down through the notches, which prevent such chains from being caught or pinched between the door and the bottom of the scow. Next, the shaft is to be 60 revolved laterally and moved endwise to bring the hooks into position to hook into the chains on their being raised upward for being hitched upon the said hooks.

In the above-described scow the hold-door 65 has one or more air-chambers, so as to render it floatable, so as to cause it on being freed from a load to rise and close in the water on the scow being afloat. Furthermore, I usually have a mouth or opening to each of 70 such chambers, as shown at *m*, and to such mouth or opening a close-fitting stopper or door, *n*, such mouth or opening being to enable me to put through it into the chamber water or other matter or ballast, for the pur- 75 pose of preventing the chamber-door from rising too quickly on the discharge of a load from the hold of the scow.

I claim—

1. A dumping-scow having to the open bot- 80 tom of its hold a door hinged to the scow-body, and provided with one or more air-tight chambers to cause it when the scow is afloat and on a load being dumped therefrom to rise in the water and close the bottom of the hold, as set 85 forth.

2. The combination, with the scow-body, of the floatable door, substantially as described, hinged at one edge to such body at the open bottom of its hold, and provided at its oppo- 90 site edge with notches arranged in it, and with chains fixed to it immediately in rear of and close to such notches, all being substantially as set forth.

3. The combination of the rotary and slid- 95 ing shaft supported in boxes, and provided with hooks and one or more clutches, as described, with the dumping-scow body and with the floatable door, essentially as described, of the hold thereof, hinged to 100 such body, and provided with notches arranged in it, as represented, and with chains

to engage with the said hooks, all being substantially as set forth.

4. A dumping-scow having to the open bottom of its hold a door provided with means
5 to render it floatable, and hinged to the scow-body in order to cause such door when the scow is afloat, and on a load being dumped

therefrom, to rise in the water and close the bottom of the hold, all being substantially as set forth.

FRANK SCRIPTURE.

Witnesses:

R. H. EDDY,
R. B. TORREY.