

L. F. Frazee,

Saw.

No. 110,130.

Patented Dec. 13, 1870.

Fig 1

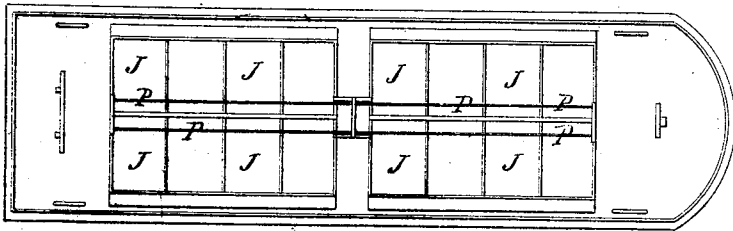


Fig 2

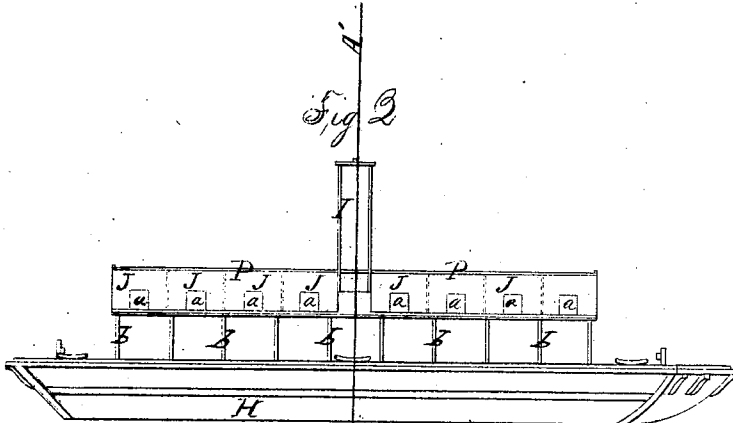
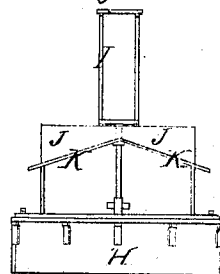


Fig 3



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Witness
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LAWRENCE F. FRAZEE, OF JERSEY CITY, NEW JERSEY.

Letters Patent No. 110,130, dated December 13, 1870.

IMPROVEMENT IN COAL-BARGES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, LAWRENCE F. FRAZEE, of Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Coal-Barges; and I do hereby declare the following to be such a full, clear, and exact description of the same as will enable any one skilled in the arts to which my invention appertains to make and use the same, reference being had to the annexed drawing making part of this specification, in which—

Figure 1 is a top view of said barge;

Figure 2, a side elevation thereof; and

Figure 3, a transverse section on the line A' A'.

The object of my invention is to facilitate the shipment and transshipment of coal. This object I accomplish by a novel construction of barge, the novelty consisting in constructing upon the deck of an ordinary lighter or vessel a series of elevated compartments of a given size, fitted with sloping bottoms and hinged doors, and combined with an elevator by which the coal can be raised out of the hold of the barge to fill the compartments. By these means the coal can be taken either directly out of another vessel into the compartments, or out of the hold of the lighter, so that at any time a given amount of coal can be dumped out of the compartments into a vessel brought alongside of the barge without the trouble of weighing or otherwise handling it, each compartment being made to hold a given weight of coal.

In the drawing—

H represents the hull of the barge.

b b b, the columns upon which the compartments are supported.

J J J, the compartments.

K, the sloping floors, and

a a a, the doors thereof, which are to be hinged at the top and arranged to rise up around the hinge as a center, by which the coal is allowed to slide off of the sloping bottoms into the vessel brought to receive it; or the compartments may be made with flat bottoms, fitted with doors therein, to dump on a sloping platform beneath.

The elevator is to be of the ordinary variety, so that no special description of it is necessary here. The relation of the elevator, however, to the compartments, is shown in the drawing by the four posts, marked I, which are intended to illustrate the post of the elevator.

It is to be arranged about in the center of the barge, over a railroad-track, shown by P, the intention being to elevate the coal in a small car on the platform of the elevator, the car being arranged to run off on the track when the platform is raised up, and dump in either compartment on either side of the barge.

Having now described the nature and extent of my invention,

I claim as new herein—

1. A series of compartments supported upon columns above the spar-deck, and made, arranged, and operated substantially as described, for the purpose specified.

2. In combination with said elevated compartments, made, arranged, and operated as aforesaid, an elevator arranged in relation thereto, as shown and described, for the purpose specified.

LAWRENCE F. FRAZEE.

Witnesses:

PETER D. KENNY,
AMOS BROADNAX.