

B. WEISKER.

Oscillating Berths for Vessels.

No. 141,614.

Patented August 5, 1873.

Fig. 2.

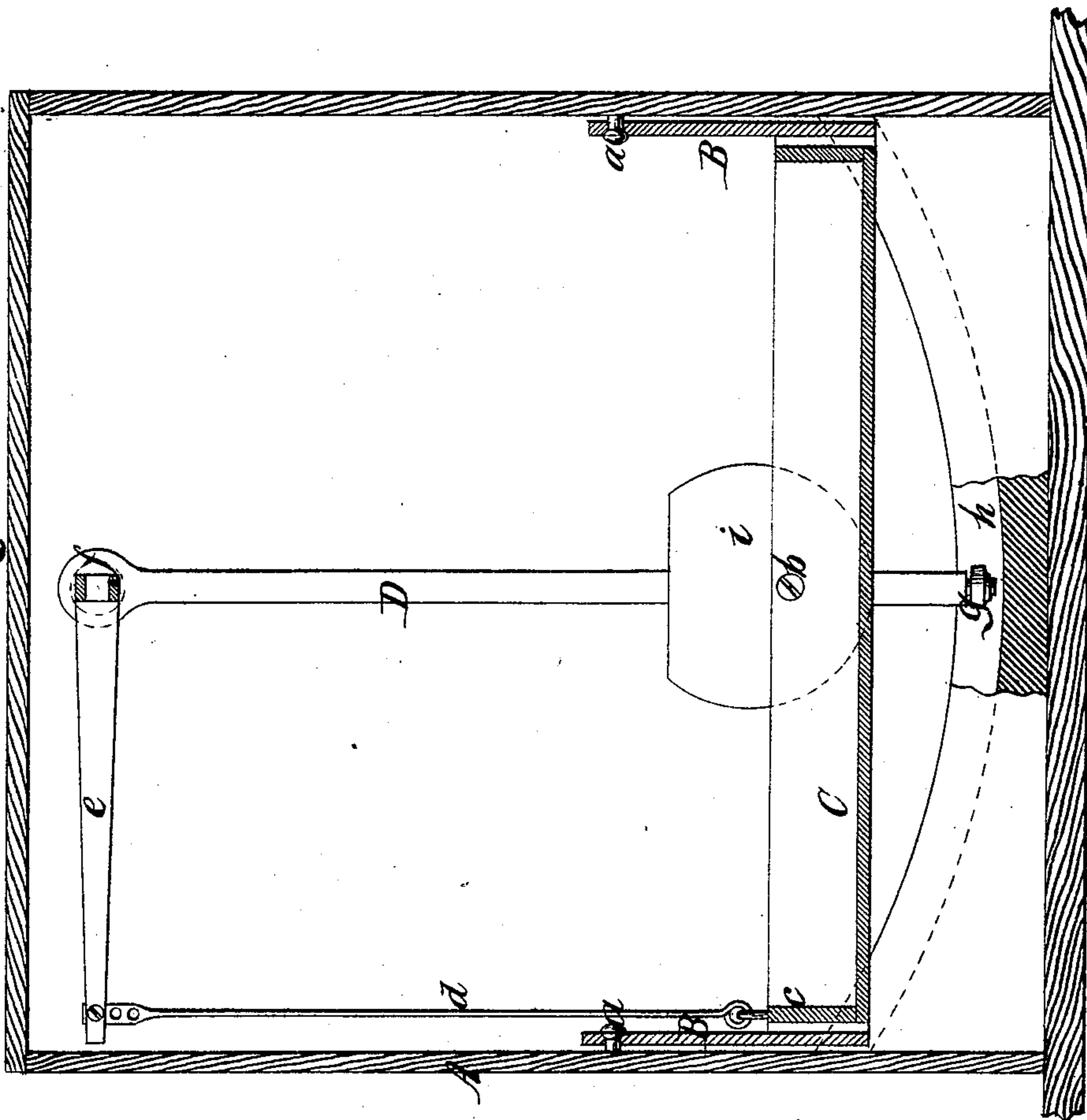
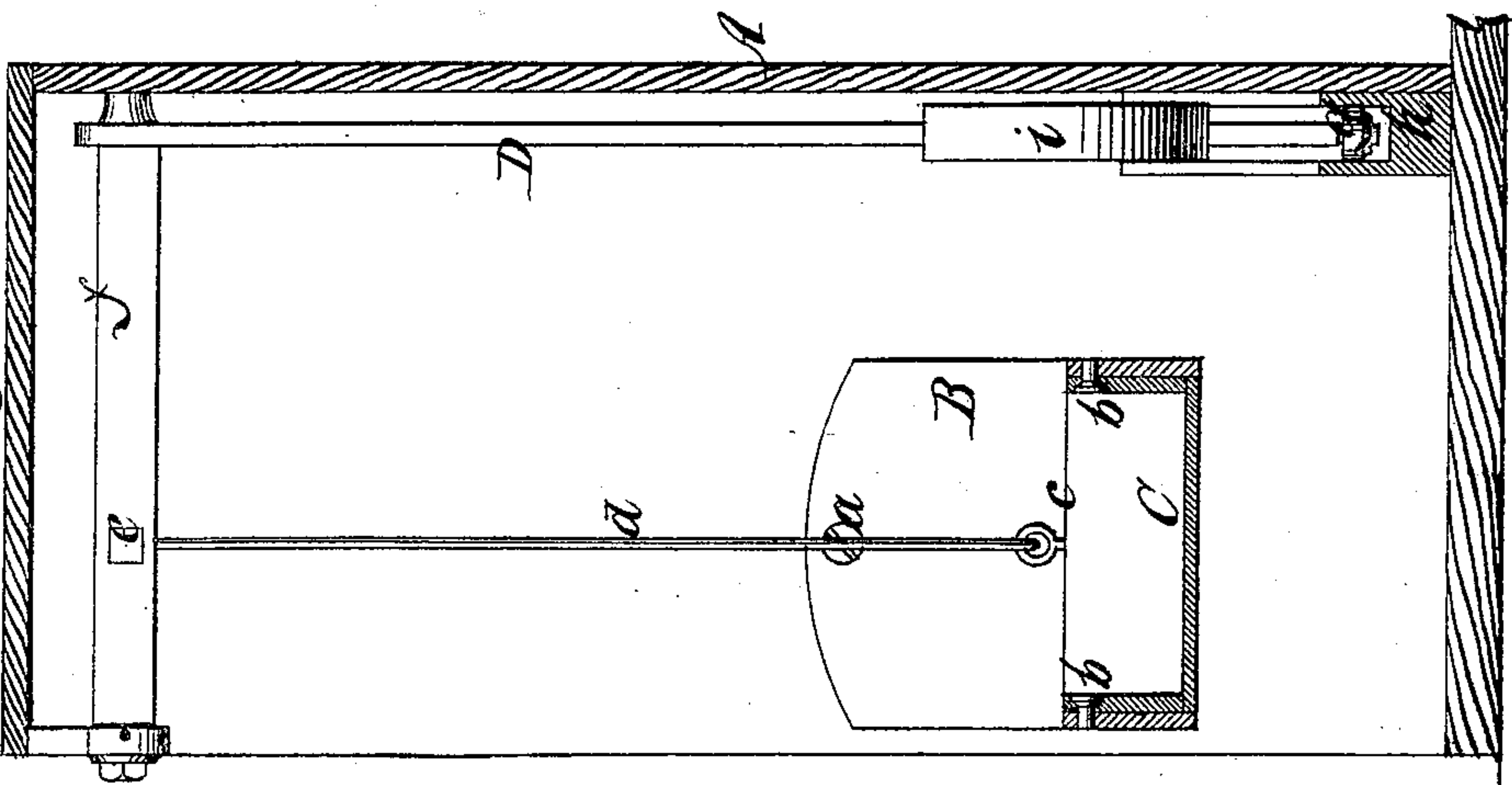


Fig. 1.



Witnesses.  
Chas. Winkler.  
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# UNITED STATES PATENT OFFICE.

BERNHARD WEISKER, OF NEW YORK, N. Y.

## IMPROVEMENT IN OSCILLATING BERTHS FOR VESSELS.

Specification forming part of Letters Patent No. **141,614**, dated August 5, 1873; application filed May 15, 1873.

*To all whom it may concern:*

Be it known that I, BERNHARD WEISKER, of the city, county, and State of New York, have invented a new and useful Improvement in Berths for Vessels; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming a part of this specification, in which drawing—

Figure 1 represents a transverse section of my invention. Fig. 2 is a longitudinal section of the same.

Similar letters indicate corresponding parts.

This invention consists in a pendulum suspended from a rock-shaft, on which is secured an arm that connects with the head-board of the berth of a vessel, said berth being hung on pivots which are secured in a swinging frame in such a manner that said pendulum forms a counter-balance for the weight of the occupant of the berth, while the berth is free to accommodate itself to the pitching and to the rolling motions of the vessel. The lower end of the balance-pendulum is guided in a channel or groove, so that the same will retain its position and follow the pitching motion of the vessel without being disturbed by the rolling motion.

In the drawing, the letter A designates a state-room, to the ends of which is secured a frame, B, which swings on pivots, *a a*. In the sides of this frame are secured pivots *b b*, which support the berth C, so that this berth extends in the direction of the length of the vessel or parallel to its keel. From the head-board *c* of said berth extends a rod, *d*, which is pivoted to a lever, *e*, that extends from a

rock-shaft, *f*, which runs transversely across the state-room near its ceiling, as shown in Fig. 1. On this rock-shaft is secured the balance-pendulum D, the lower end of which carries a friction-roller, *g*, that moves in a channel or groove, *h*. On said pendulum is secured a weight, *i*, which is so proportioned that it considerably overbalances the weight of the person occupying the berth C, and that the position of the berth is but imperceptibly disturbed when said person enters it or leaves it. This object is facilitated by the proportion between the length of the pendulum and that of the lever *e*, and by means of my balance-pendulum the berth is prevented from tipping over or from assuming an inclined position while its owner enters the same and lies down in it. At the same time the balance-pendulum will freely follow the pitching motions of the vessel, while the swinging-frame B is free to follow the rolling motions of the vessel, and consequently the berth is retained in a horizontal position, entirely independent from the changing positions of the vessel. The rod *d*, which connects the head-board of the berth with the lever *e*, is provided with several holes, so that it can be adjusted on said lever, and the head-board of the berth can be raised or lowered to suit its owner.

What I claim as new, and desire to secure by Letters Patent, is—

The rock-shaft *f*, lever *e*, and rod *d*, in combination with the balance-pendulum D, swinging-berth C, and oscillating frame B, substantially as set forth.

BERNHARD WEISKER.

Witnesses:

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