No. 695,329. Patented Mar. 11, 1902.

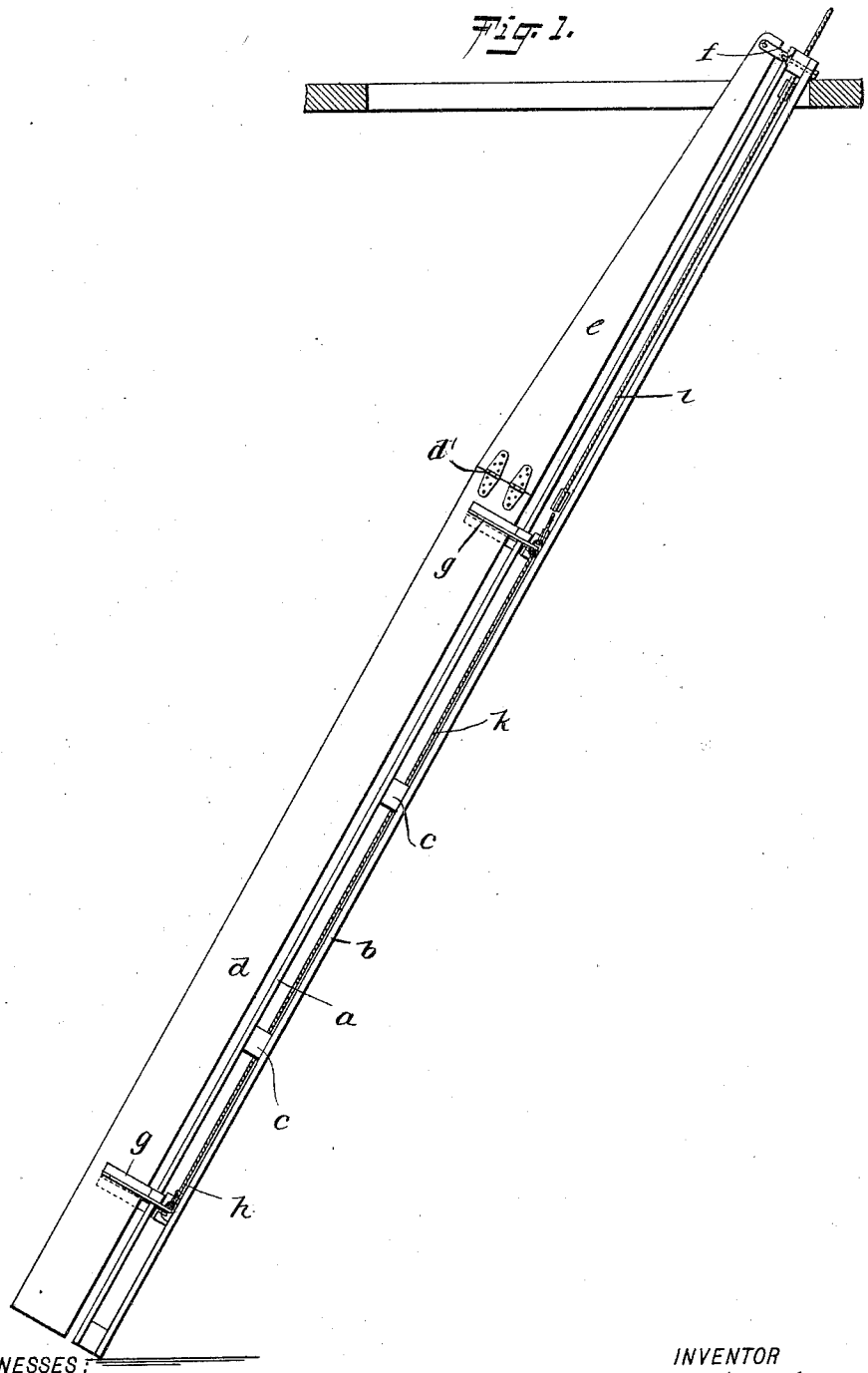
W. L. McCABE.

CHUTE.

(Application filed July 24, 1901.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.



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(No Model.) 2 Sheets—Sheet 2.

Fig. 2.

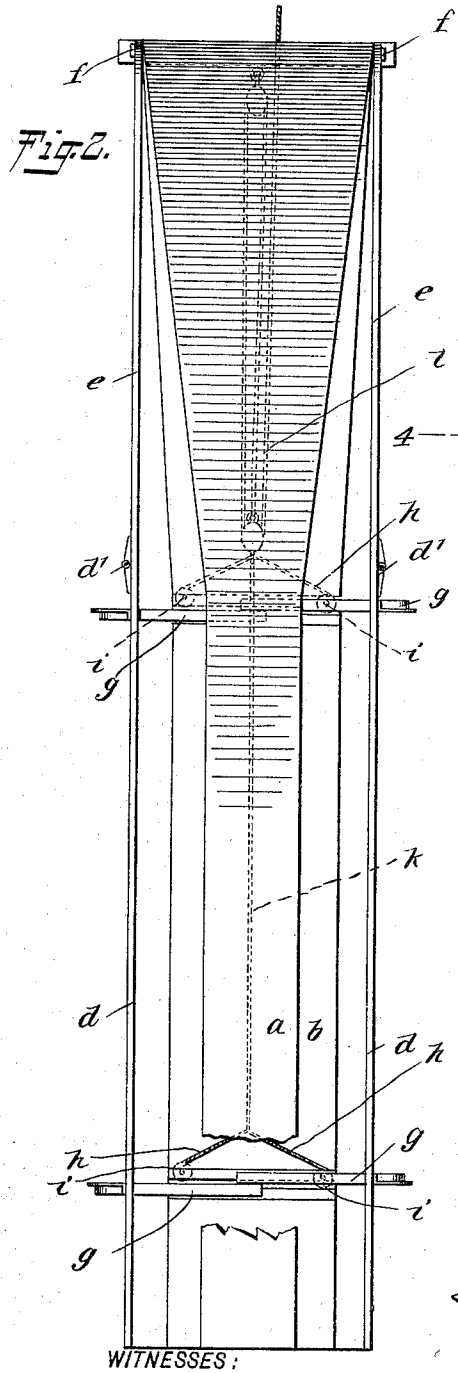


Fig. 3.

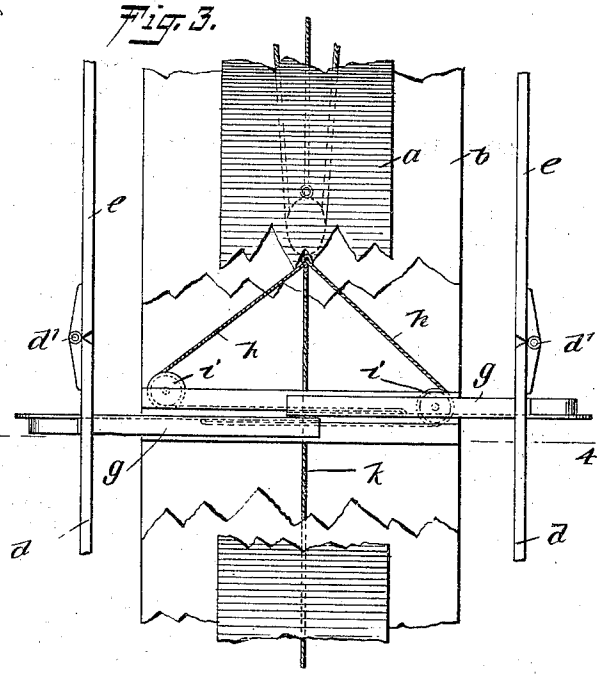


Fig. 4.

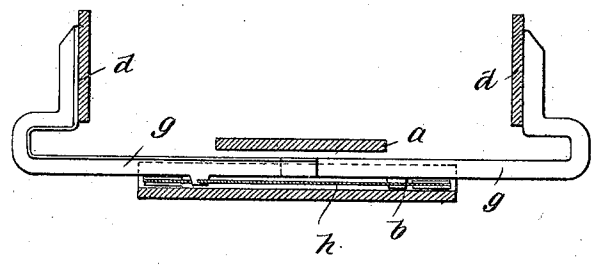
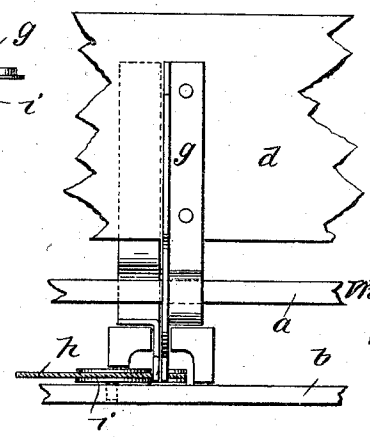


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM L. MCCABE, OF TACOMA, WASHINGTON.

CHUTE.

SPECIFICATION forming part of Letters Patent No. 695,329, dated March 11, 1902.

Application filed July 24, 1901. Serial No. 69,518. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. MCCABE, a citizen of the United States, and a resident of Tacoma, in the county of Pierce and State of Washington, have invented a new and Improved Chute, of which the following is a full, clear, and exact description.

This invention relates to a chute for delivering goods by sliding by gravity along an incline chute into the hold of a vessel or to some other point; and the object is to provide a means for regulating the descent of the goods, so as to avoid dropping them rapidly down the incline. This end I attain by providing brake-boards which run longitudinally along the chute and are movable toward and from each other, so that they may be pressed with any desired degree of force against the article which is sliding along the relatively stationary bottom of the chute and the descent of the article thus arrested.

This specification is a specific description of one form of the invention, while the claims are definitions of the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the invention. Fig. 2 is a front elevation thereof. Fig. 3 is a fragmentary view showing the manner of mounting the brake-boards. Fig. 4 is a cross-section on the line 4 4 of Fig. 3, and Fig. 5 is a fragmentary side elevation hereinafter more particularly described.

The chute has a bottom made up of two parts designated *a* and *b*, respectively, the part *a* being the upper part, which carries the freight as it slides down the chute, and the part *b* being a stiffening element. These two parts are connected rigidly together by spacers *c*. (See Fig. 1.)

d represents the brakes, which are in the form of vertically-disposed boards arranged one at each side of the chute and constituting also the side walls of the chute. The bottom of the chute is stationary relatively to these brakes. These brake-boards are capable of moving toward and from each other. Now it will be seen that as the freight is slid by gravity down the chute by contracting the brake-boards against the freight the descent of the freight will be retarded and it may be lowered down a steep incline with safety.

The brake-boards *d* are connected by hinges *d'* to tailpieces *e*, arranged at the upper end of the chute, and pivotally connected by suitable pins *f* with the rigid portions of the chute. This arrangement allows the brake-boards to be moved freely in and out. Fastened to the brake-boards *d* are pairs of sliding bars *g*, which are fitted to move between the sections *a* and *b* of the bottom of the chute. Connected with each of these sliding bars *g* are ropes *h*, which pass around guide-sheaves *i*, attached to the section *b* of the bottom. These ropes *h* are joined together in pairs by a longitudinally-extending connecting-rope *k*, and this in turn is connected to a tackle *l* or any other suitable means for hauling on the ropes *h*. By hauling on these ropes the bars *g*, and consequently the boards *d*, will be drawn together and the brakes pressed against the freight. By relaxing the strain on the ropes *h* the boards will be permitted to separate.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A chute, having a bottom on which the goods slide by gravity, a brake extending longitudinally along the bottom and movable laterally to press the brake against the goods, as they slide down the chute, whereby to retard the movement of the goods, said bottom being stationary relatively to the brakes.

2. A chute, having a bottom on which the goods slide by gravity oppositely-disposed brakes movable laterally toward and from each other and extending longitudinally along the bottom, between which brakes the goods are adapted to pass, for the purpose specified, said bottom being stationary relatively to the brakes.

3. A chute, comprising a rigid body portion, brake-boards arranged at the sides thereof and movable laterally toward and from each other to be pressed against the goods as they descend along the chute, and means mounted on the bottom of the body portion, whereby to force the brake-boards

toward each other, said bottom being stationary relatively to the brake-boards and adapted to have the goods slide by gravity along it.

4. In a chute, the combination of a rigid bottom, bars mounted to slide transversely thereon, means for moving the bars inward, and brake-boards extending longitudinally along the chute and fastened to the bars and moving therewith, for the purpose specified, the bottom of the chute being stationary relatively to the brake-boards and adapted to have the goods slide by gravity along it.

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

WM. L. McCABE.

Witnesses:
JNO. M. RITTER,
F. W. HANAFORD.