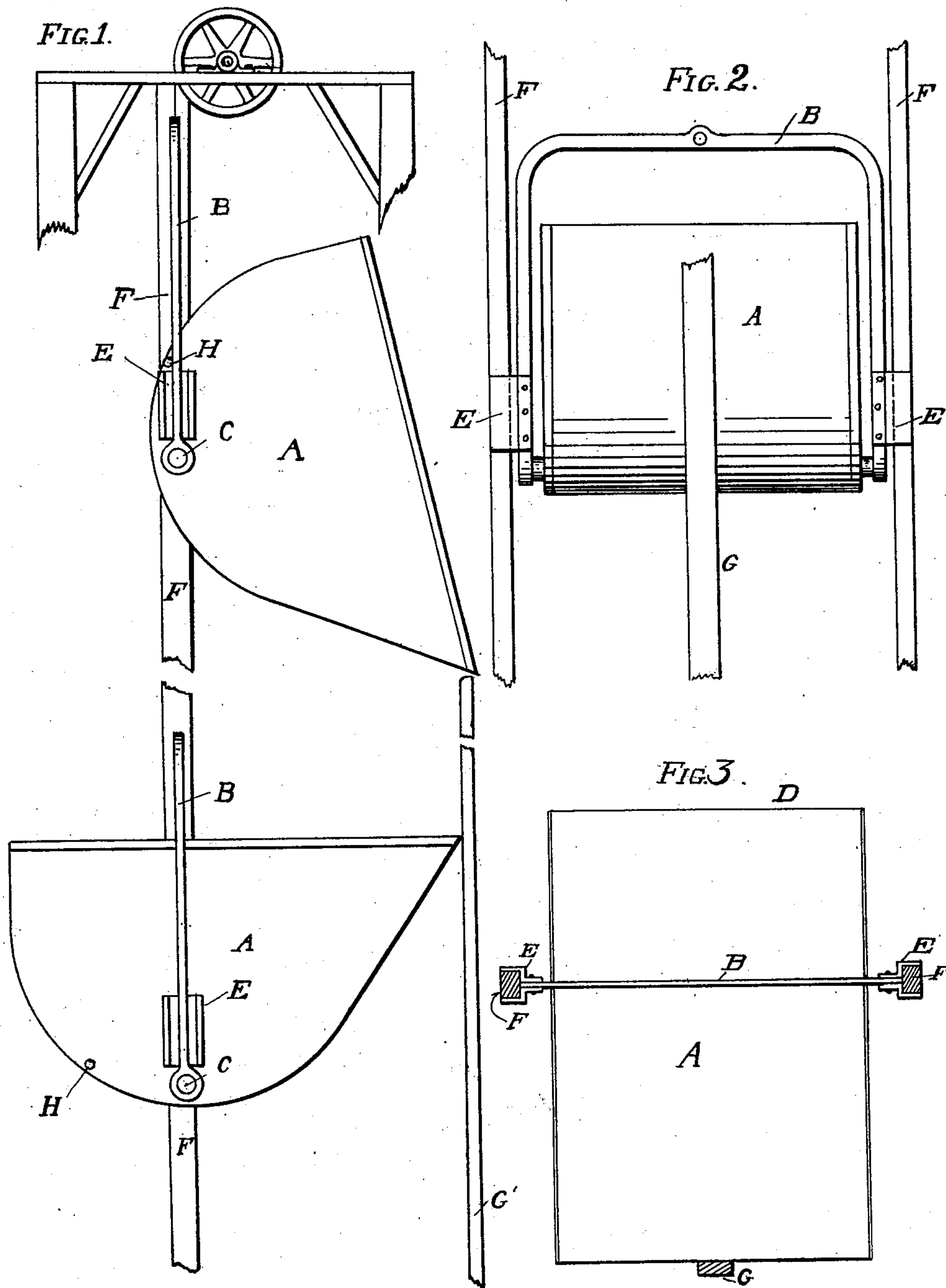


No. 694,579.

Patented Mar. 4, 1902.

E. L. RANSOME.
SELF DUMPING HOIST.
(Application filed July 17, 1901.)

(No Model.)



WITNESSES
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ERNEST LESLIE RANSOME, OF NEW YORK, N. Y.

SELF-DUMPING HOIST.

SPECIFICATION forming part of Letters Patent No. 694,579, dated March 4, 1902.

Application filed July 17, 1901. Serial No. 68,703. (No model.)

To all whom it may concern:

Be it known that I, ERNEST LESLIE RANSOME, a citizen of the United States, residing at the city of New York, in the State of New York, have invented an Improved Self-Dumping Hoist; and I hereby declare the following to be a full, clear, and exact description of the same.

My improvement relates to that class of hoists that are used for elevating materials vertically—as, for example, material used in the erection of a building or mineral out of a mine.

It consists of a tub, the bail of which slides upon guides, while the tub is sustained in the required vertical position by a bar against which it slides and over which it turns and discharges.

The accompanying drawing illustrates my invention, in which—

Figure 1 is a side view of the hoist in two positions with one guide removed. Fig. 2 is a front view. Fig. 3 is a plan.

A is the tub.

B is the bail; C, the trunnions.

D is the rear of the tub.

E E are slides on the bail.

F F and G are fixed guides, and H is a stop.

My invention is as follows: Any suitable tub A is hung on the handle of bail B upon trunnions C, which are placed well below the center of gravity of the tub and to the rear thereof in such a manner that when hung the tub by its own gravity falls forward either when empty or full. The bail is held by slides E to the fixed guides F in such a manner that the tub can freely slide up and down between them. Bar G is fixed in front of the discharge side of the tub and at such a distance from the line of the guides F as to sustain the tub in a vertical position right side

up. This bar extends to the height of the required lift. Bar G may be divided into as many sections as necessary, and by adding or removing one or more sections the height of the tub can be regulated roughly. For a closer regulation one bar may be lapped past another, as shown at G'. In operation, the weight of the tub being mostly forward, as it is hoisted it bears against the bar G and slides upon it until the top thereof is reached, when as it is raised higher it turns upon the bar G until it becomes sufficiently inverted to discharge its contents. The tub is then lowered, and as it falls it returns back upon the bar G and resumes its first position. The tub can be hoisted by any convenient means. Stop H prevents the tub from overturning too far.

Instead of attaching the bail to the fixed guides the tub may be attached by its trunnions or in any other convenient manner that will permit of free movement up and down.

The tub is hoisted and the fixed guides are held in place by any suitable means.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A hoisting-tub swung on a bail wherein it overturns by its own weight, in combination with fixed guides upon which the bail moves, a stop to prevent the tub from overturning too far, and a guide-rail in front of the tub which retains the tub in position and upon the top of which the tub tips, substantially as described.

2. The hoisting-tub A swung in the bail B in combination with fixed guides F and the guide-bar G, substantially as described.

ERNEST LESLIE RANSOME.

Witnesses:

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