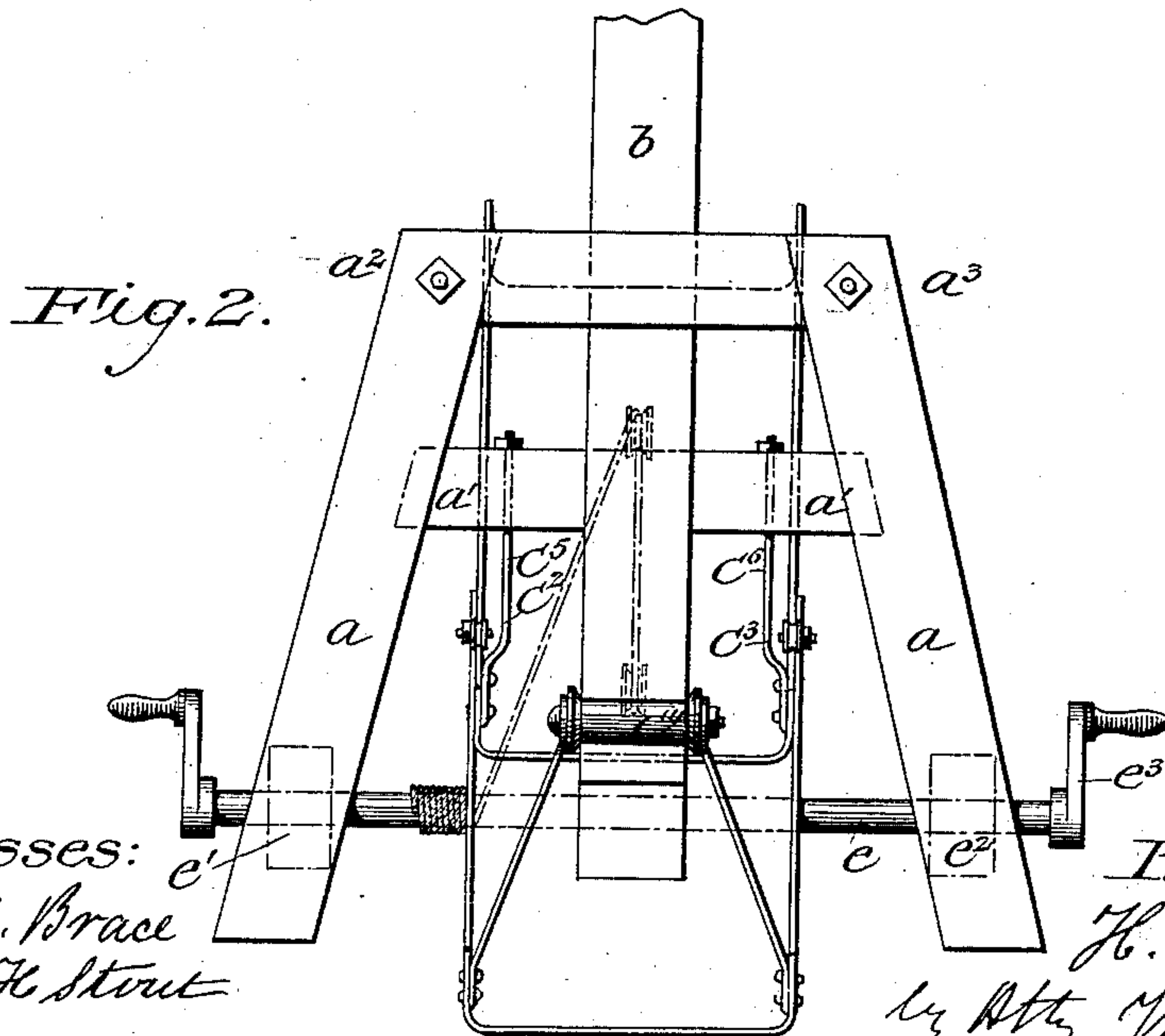
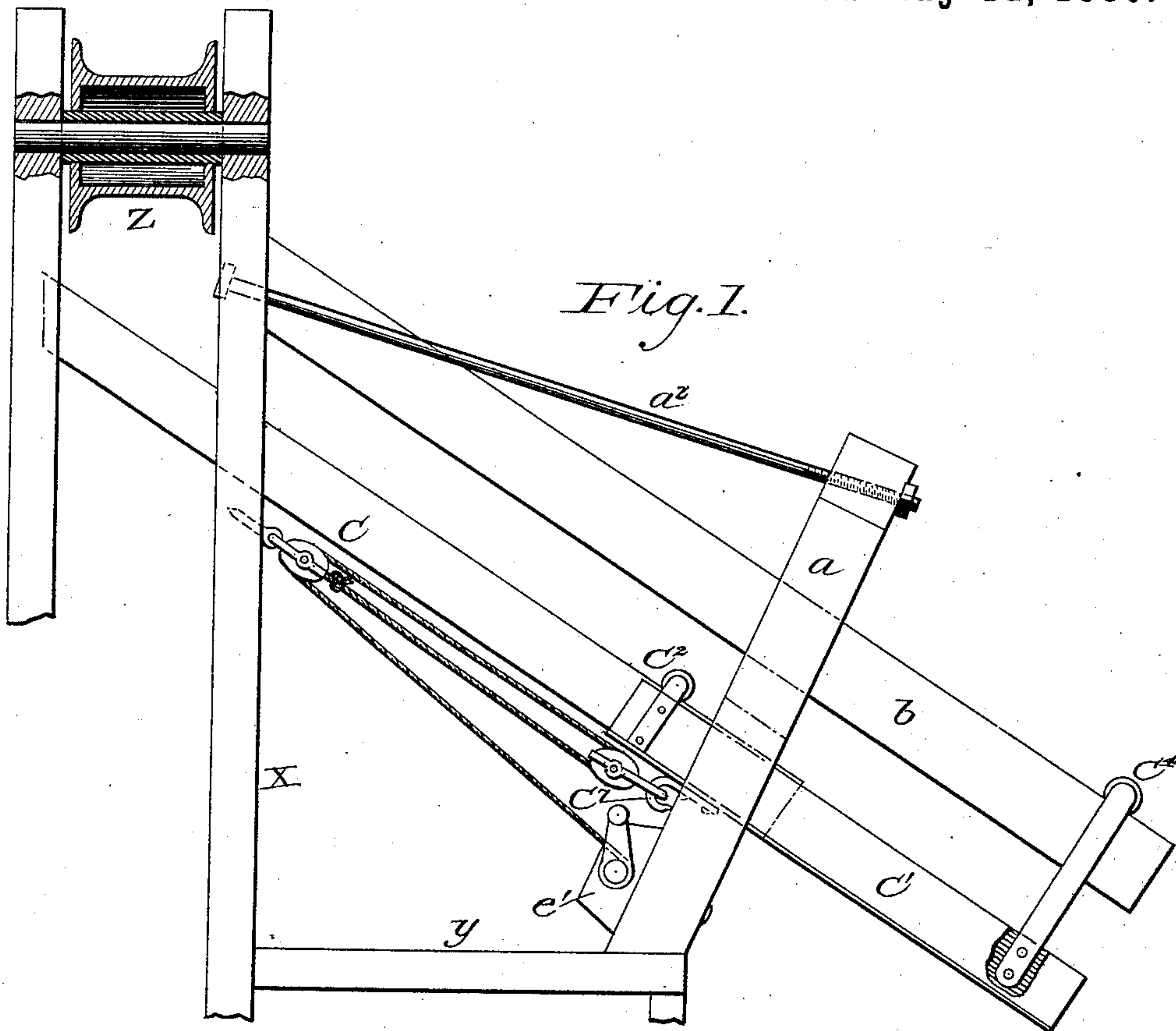


(No Model.)

H. G. REEDER.  
DREDGE MACHINE DISTRIBUTER.

**No. 341,603.**

Patented May 11, 1886.



Witnesses: e'  
Geo A. Brace  
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*Inventor:*  
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# UNITED STATES PATENT OFFICE.

HORACE G. REEDER, OF BORDENTOWN, NEW JERSEY.

## DREDGE-MACHINE DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 341,603, dated May 11, 1886.

Application filed December 4, 1885. Serial No. 184,713. (No model.)

*To all whom it may concern:*

Be it known that I, HORACE G. REEDER, a citizen of the United States, residing at Bordentown, in the county of Burlington and State of New Jersey, have invented a new and useful Improvement in Dredge-Machine Distributers, of which the following is a specification.

My invention relates to apparatus for the distribution of the dredge product in a gradual even manner over the entire width of beam of the barge being loaded with sand or other material.

Its object is by the employment of simple and inexpensive mechanism to save the useless waste of labor entailed in leveling dredge product in boats caused by the imperfect action of the hinged chute universally employed for this purpose.

It consists, first, in a novel extension of an inclined plane or ways over the side of a dredge-machine in such manner that the movable section of chute may be traversed back and forth thereon the full width of barges used to convey dredge product; secondly, in a novel combination therewith of mechanism for operating the movable section of chute. I attain these objects by means of the device illustrated in the accompanying drawings, wherein—

Figure 1 represents a vertical side elevation of my improved device. Fig. 2 represents a front elevation of the same.

Similar letters refer to similar parts throughout the several views.

*a*, Figs. 1 and 2, is a derrick constituting the frame-work of my improved device. Its base is firmly secured to the deck of dredge-machine. Its upper extremities are braced to the well *x* by guy-bolts *a*<sup>2</sup> *a*<sup>3</sup>.

*a'* is a cross-beam framed into derrick *a*.

*b* is an inclined plane or way extending out over side of dredge. It is firmly secured to well *x* and cross-beam *a'*, and forms the track or ways on which roller *c*<sup>4</sup>, carrying the outer end of movable chute *c'*, traverses.

*c* is the fixed section of chute, set at a proper inclination to discharge dredge product by its own gravity. Its upper end passes through side of well *x* under bucket-hoisting barrel *z* in proper position to receive contents of buckets. Its lower part is secured to cross-beam *a'* by braces *c*<sup>5</sup> *c*<sup>6</sup>. Its two upper edges form ways or track, on which roller *c*<sup>2</sup> *c*<sup>3</sup> traverse.

*c'* is the movable section of chute carried by rollers *c*<sup>2</sup> *c*<sup>3</sup>, which traverse the upper edges of fixed chute *c* and the roller *c*<sup>4</sup>, which traverses the inclined plane or ways *b*. Four standards are riveted to chute *c'*, into the upper extremities of which the roller-studs are properly fitted to admit of the free rotation of the respective rollers.

*c'* is a hook, properly fastened to chute *c'*, to which the fall-block *d* is attached. The block and fall are used for traversing the movable section of chute *c'*. The movable block is attached to chute *c'* by means of the hook *c'*, and the fixed block is secured to well-framing *x*.

*e* is the winch-shaft, fitted to journals *e'* *e*<sup>2</sup>, constructed on derrick *a* and rotated by crank *e*<sup>3</sup>. It operates the chute *c'* by winding up and unwinding the fall-rope.

Having explained the construction of my improved device, its operation is substantially as follows: The contents of the chain of buckets is continuously discharged over the hoisting-barrel *z* into the upper part of fixed chute *c*; thence by its own gravity it descends through the movable section of chute *c'* into the barge in waiting for load. As the operation progresses, the movable section of chute is traversed back and forth over the width of barge in such manner that the dredge product is deposited in an even and uniform manner throughout the process of loading, requiring the services of but one hand to level and trim the sand, where four are required by the old process of hinged chute.

Having now described the construction and operation of my improved distributor, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with an inclined track or ways, *b*, extended over the side of a dredging-machine, of chute *c*, substantially as shown and described.

2. The combination, with a dredging-machine, of the derrick *a*, inclined ways *b*, chute *c* *c'*, fall-block *d*, and winch *e*, substantially as and for the purpose set forth.

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Witnesses:

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