

No. 671,973.

Patented Apr. 16, 1901.

W. MOBERRY.

MACHINE FOR SAVING FINE AND FLOUR GOLD.

(Application filed Mar. 8, 1897.)

(No Model.)

Fig. 1.

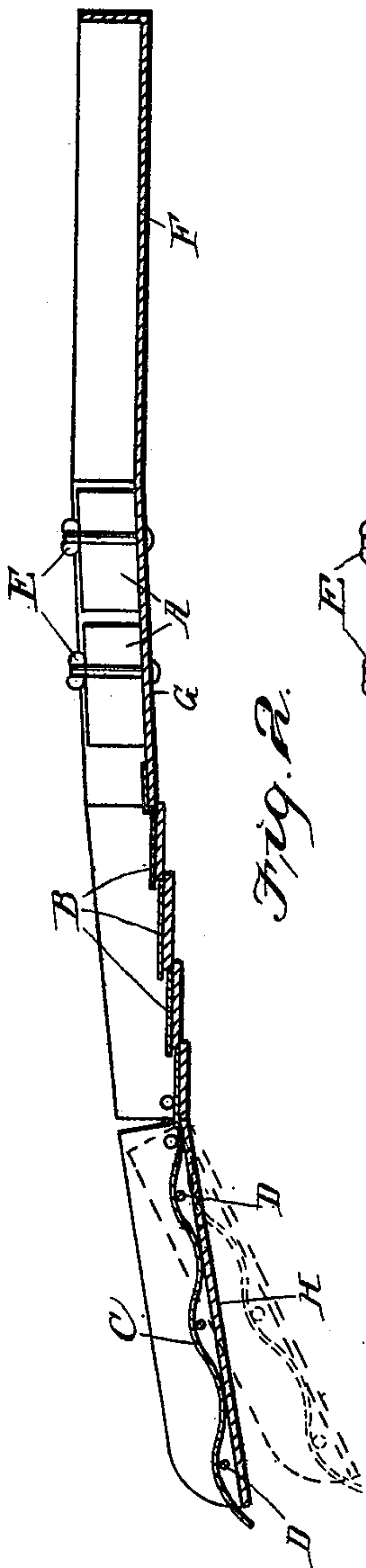


Fig. 2.

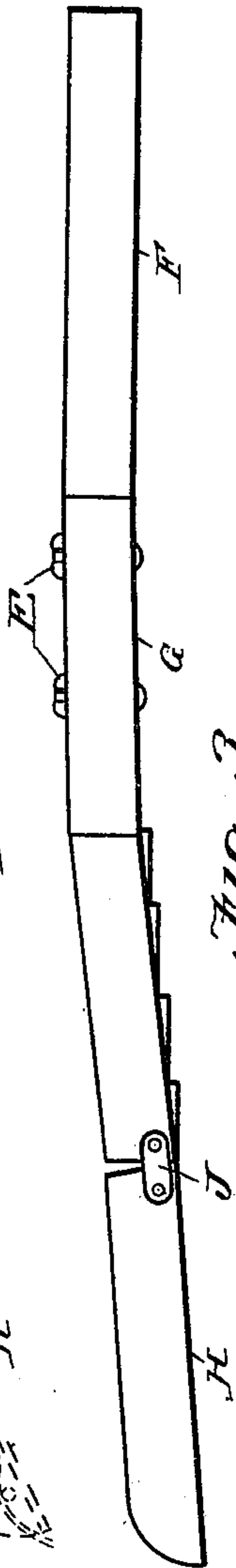
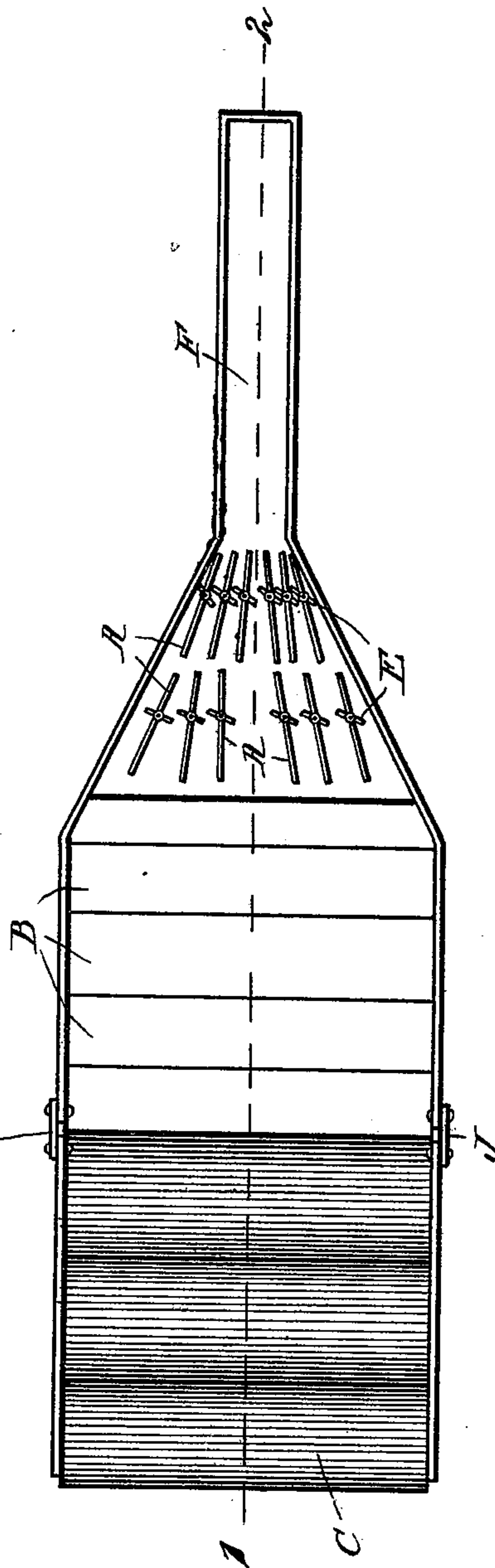


Fig. 3.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM MOBERRY, OF OCEANO, CALIFORNIA.

## MACHINE FOR SAVING FINE AND FLOUR GOLD.

SPECIFICATION forming part of Letters Patent No. 671,973, dated April 16, 1901.

Application filed March 8, 1897. Serial No. 626,421. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM MOBERRY, a citizen of the United States, residing at Oceano, in the county of San Luis Obispo and State of California, have invented a new and useful Machine for the Saving of Fine and Flour Gold, of which the following is a specification.

This invention relates generally to a gold-saving apparatus, and more particularly to one adapted to saving the fine and flour gold by the use of amalgamating-plates and by means known as "forced contact," the object of the invention being to provide for the even distribution of the water and all gold-bearing material over any width of surface desired and at the same time dispensing with all power necessary to operate machinery.

With this object in view my invention consists in the details of construction and novelties of combination hereinafter described, and pointed out in the claim.

In the drawings forming part of this specification, Figure 1 is a vertical longitudinal section. Fig. 2 is a side elevation, and Fig 3 is a top plan view.

Referring to the drawings, F indicates a receiver for water and the auriferous material, the water used in washing away the bank in a placer being used to convey the material through the receiving portion F, thereby dispensing with all power. The receiver F is in the nature of a trough and discharges into an essentially V-shaped distributing-table G, said table having a series of vertical distributing blades or guides A, each of which has a tubular central portion, through which passes a securing-bolt having a thumb-nut E upon the upper end and by means of which the blades or guides can be regulated or adjusted in order to evenly distribute the material through the amalgamating-plates B, which are arranged in successive or step-like order in a box-like portion into which the distributing-table discharges, and hinged to the end of the box containing the amalgamating-plates is an adjustable table H, connected to said box by means of a hinge J, and arranged in the said portion H is a strip of burlap C, extending from end to end over a series of transverse slats or bars D, thereby providing

a riffle for the purpose of catching by contact all of the gold-bearing material which is not held on the amalgamating-plates.

By constructing my improved gold-saving appliance in this manner the amalgamating-plates are arranged substantially horizontal, which will cause the water to move so slowly over them that it will give the gold which is held in suspension an opportunity to settle in the bottom and to be deposited on the plates. It will also prevent the formation of a rapidly-moving current, which would not only prevent the precipitation of the gold, but would wash or scour the gold off the plates which had already been deposited. In addition to this the edge of each plate projects a slight distance beyond the board or step to which it is secured, thereby causing the water and material to have a clear and unobstructed fall from one step to the other, which will insure a contact at the point where the stream strikes the plate. The last plate will extend over the hinge between the plates and the table, and thus prevent any leakage at the joint.

By forming the bottom of the box from a series of transversely-arranged boards, with the lower edge of each one resting upon the upper edge of the next succeeding one below, a very cheap and efficient construction is secured and which will give a good and substantial support for the plates.

The arrangement of the rods and burlap in the inclined trough-like table H will cause the burlap to form a riffle or pocket for each rod, the form of said pockets being automatically varied by the adjustment of the table, thereby rendering the operation of the device very efficient and satisfactory.

It will also be seen that I provide an apparatus which dispenses with power for the purpose of operation and which evenly distributes the gold-bearing material first through a series of amalgamating-plates and then through a contact-apron formed into a series of riffles, by means of which all of the gold-bearing material will be retained by the apparatus as the water passes therethrough.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

In a gold-saving device, a sectional trough



composed of a section with amalgamating-plates, and a second section pivotally secured to the first section, whereby its inclination may be changed, said second section being  
5 composed of an imperforate bottom, cross-pieces above said bottom, and a textile fabric overlying said cross-pieces and adapted by sagging to form riffle-pockets whose form is

automatically variable by the adjustment of the section. 10

Dated at Oceano, county of San Luis Obispo, State of California, February 25, 1897.

WILLIAM MOBERRY.

Witnesses:

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