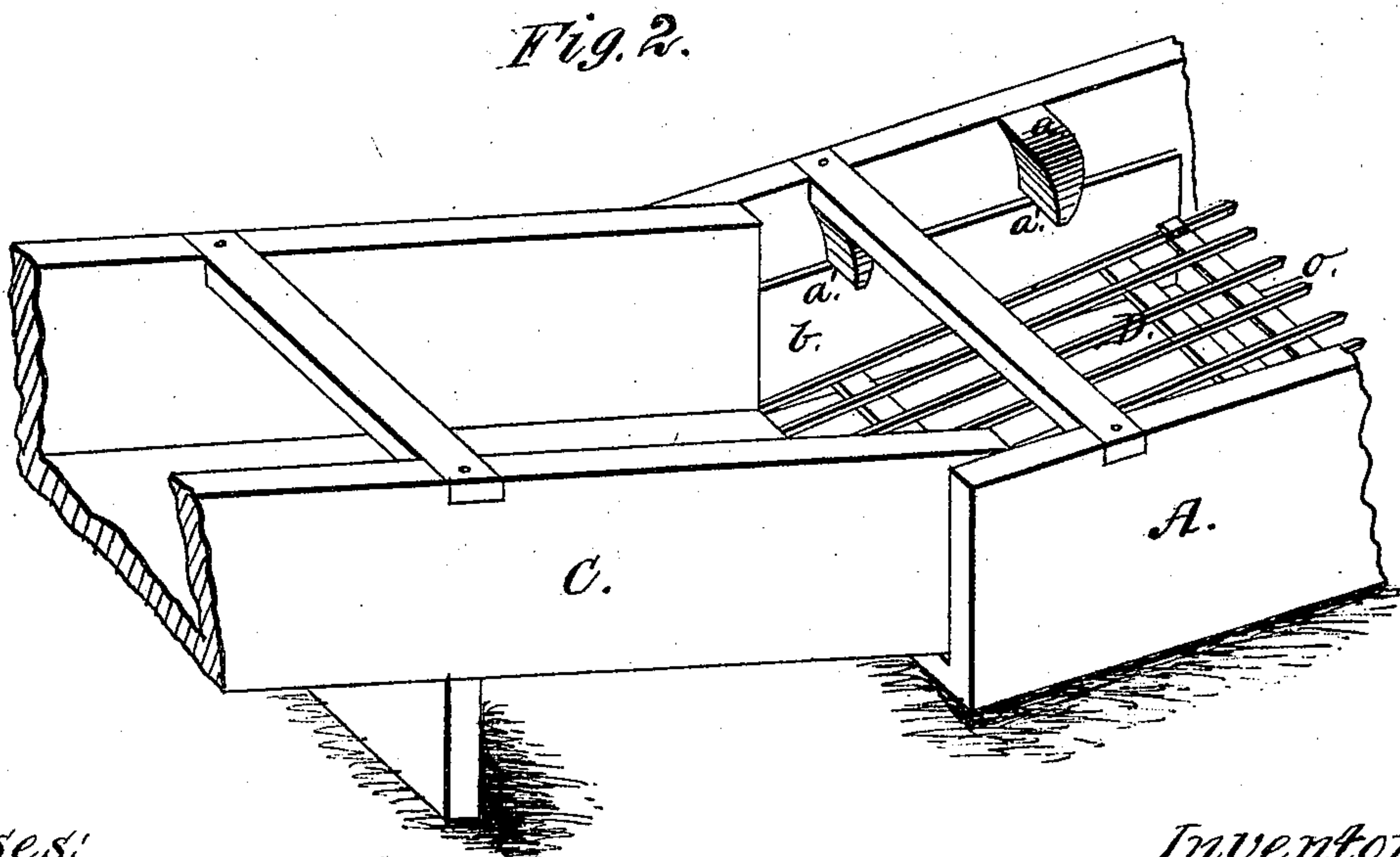
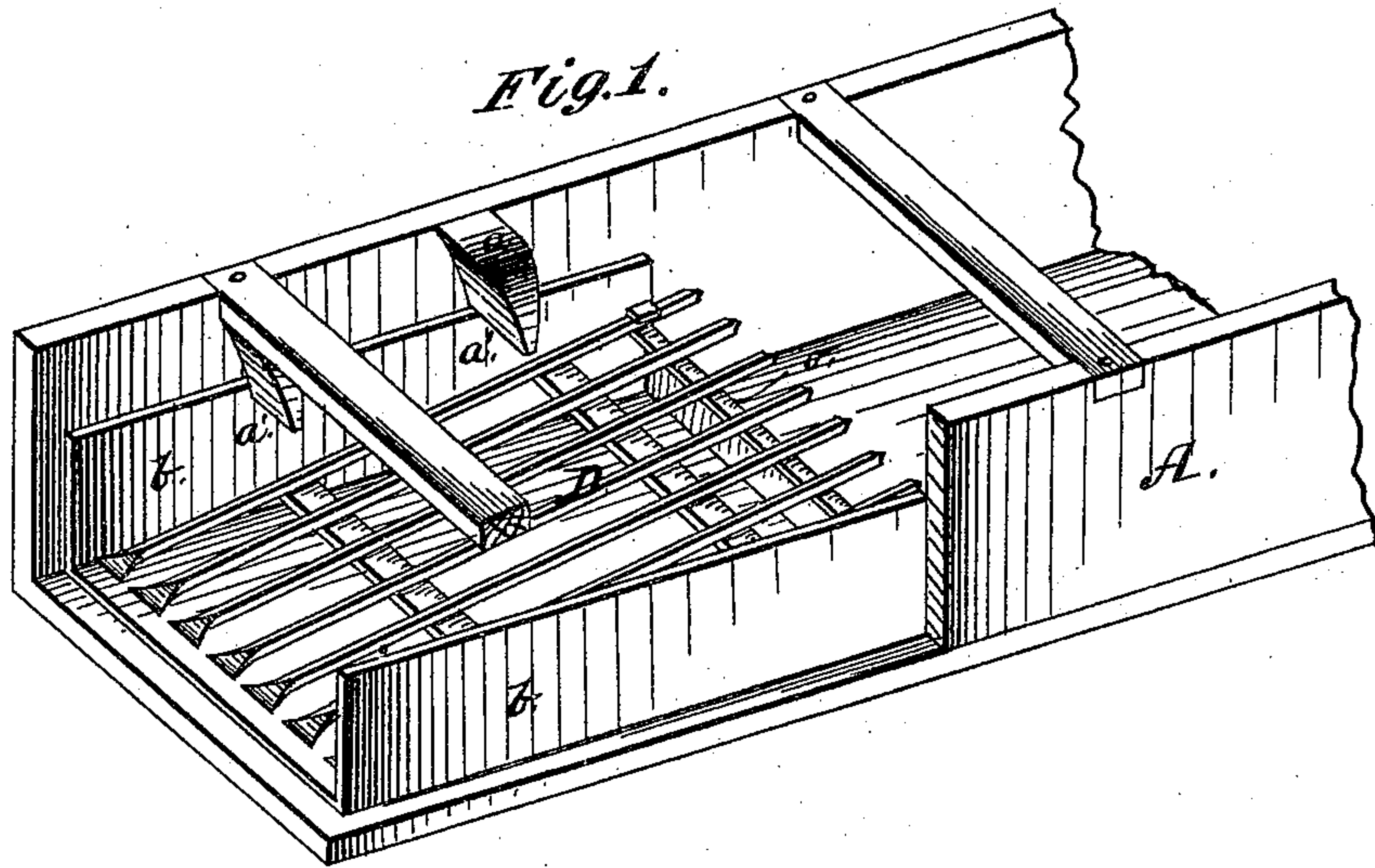


J. S. CALVERT.
GOLD-WASHER.

No. 171,597.

Patented Dec. 28, 1875.



Witnesses:

W. A. Lewis
H. A. Brown

Inventor:

John S. Calvert
by Jay A. Merrill
agt

UNITED STATES PATENT OFFICE.

JOHN S. CALVERT, OF DENVER, COLORADO TERRITORY.

IMPROVEMENT IN GOLD-WASHERS.

Specification forming part of Letters Patent No. **171,597**, dated December 28, 1875; application filed July 9, 1875.

To all whom it may concern:

Be it known that I, JOHN S. CALVERT, of Denver, in the county of Arapahoe and Territory of Colorado, have invented a new and Improved Gold-Washer; and I do hereby declare the following to be a full and exact description of the same:

My invention relates to that class of devices made use of for washing gold commonly known as the "sluice;" and the nature thereof consists in certain improvements in the details of the construction of the same, and novel combinations of parts hereinafter shown and described.

In the accompanying plate of drawings, in which corresponding parts are designated by similar letters, Figure 1 is a perspective view of a sluice-box, having a part thereof removed in order to more clearly illustrate my improvements. Fig. 2 represents two of the sluice-boxes joined together in the ordinary manner.

The sluice commonly made use of in gold-mining is a long wooden trough, having a considerable inclination, into which "pay dirt" is shoveled, and through which a rapid stream of water is continually flowing. The bottom of this trough is provided with a series of riffles, generally containing mercury, by which the gold is retained, while the clay, sand, and gravel are carried off by the force of the current. The ordinary sluice is composed of a

series of rough wooden boxes, the ends of which are fitted into each other.

In the drawings, A represents a sluice-box having my improvements applied thereto. C designates another sluice-box, through which the water and gravel pass before reaching said box A. B is the quicksilver-box, having vertical sides *b*, and an end piece, *o*, upon which rests the inclined grate D. Attached to each side of the box A are flanges or projections *a*, having inclined and curvilinear sides *a*, which deflect the water and dirt, held in suspension, downward through the grate.

The advantages of the improvement will be obvious to those skilled in the art to which the invention relates without further description.

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

The combination of the sluice-boxes A and C; the quicksilver-box B, having vertical sides *b* and an end piece, *o*; the inclined grate D resting upon the end piece *o*, and the flanges or projections *a* attached to the sides of the box A, and arranged above the quicksilver-box, as and for the purpose described.

JOHN S. CALVERT.

Witnesses:

JAY A. MERRILL,
W. A. LEWIS.