

(No Model.)

E. A. DODGE.
QUICKSILVER CATCHER.

No. 410,076.

Patented Aug. 27 1889.

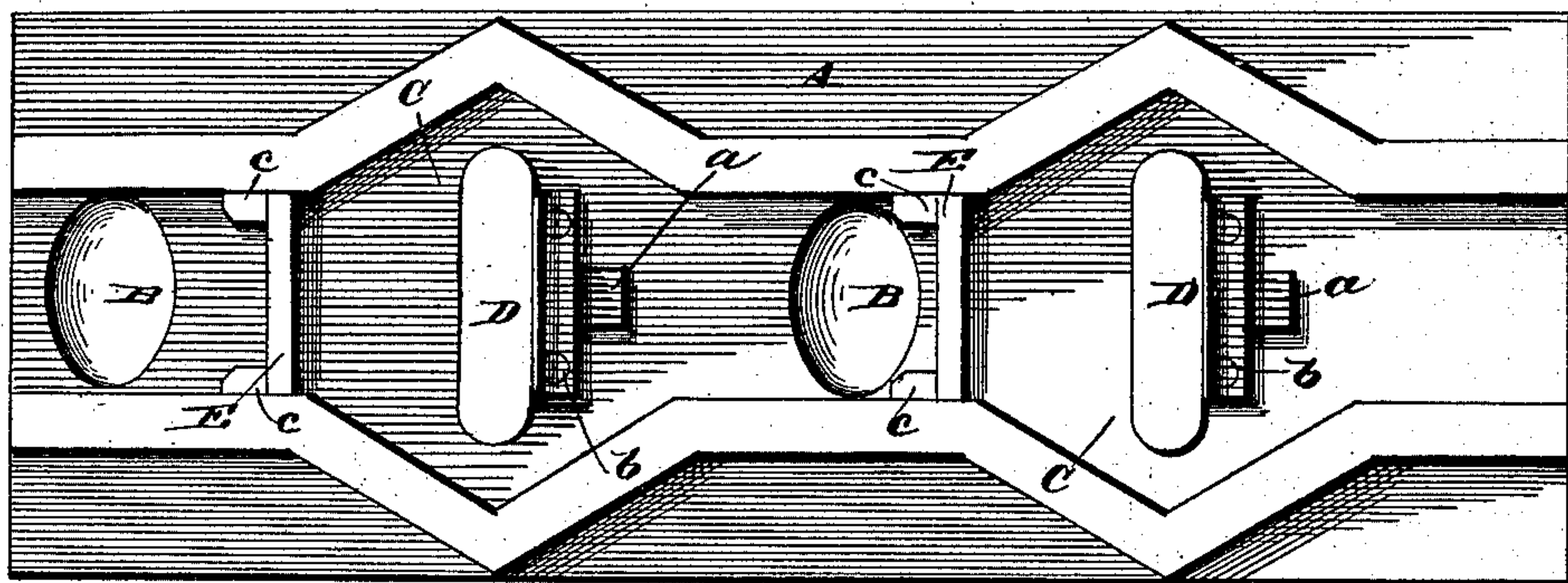


Fig. 1.

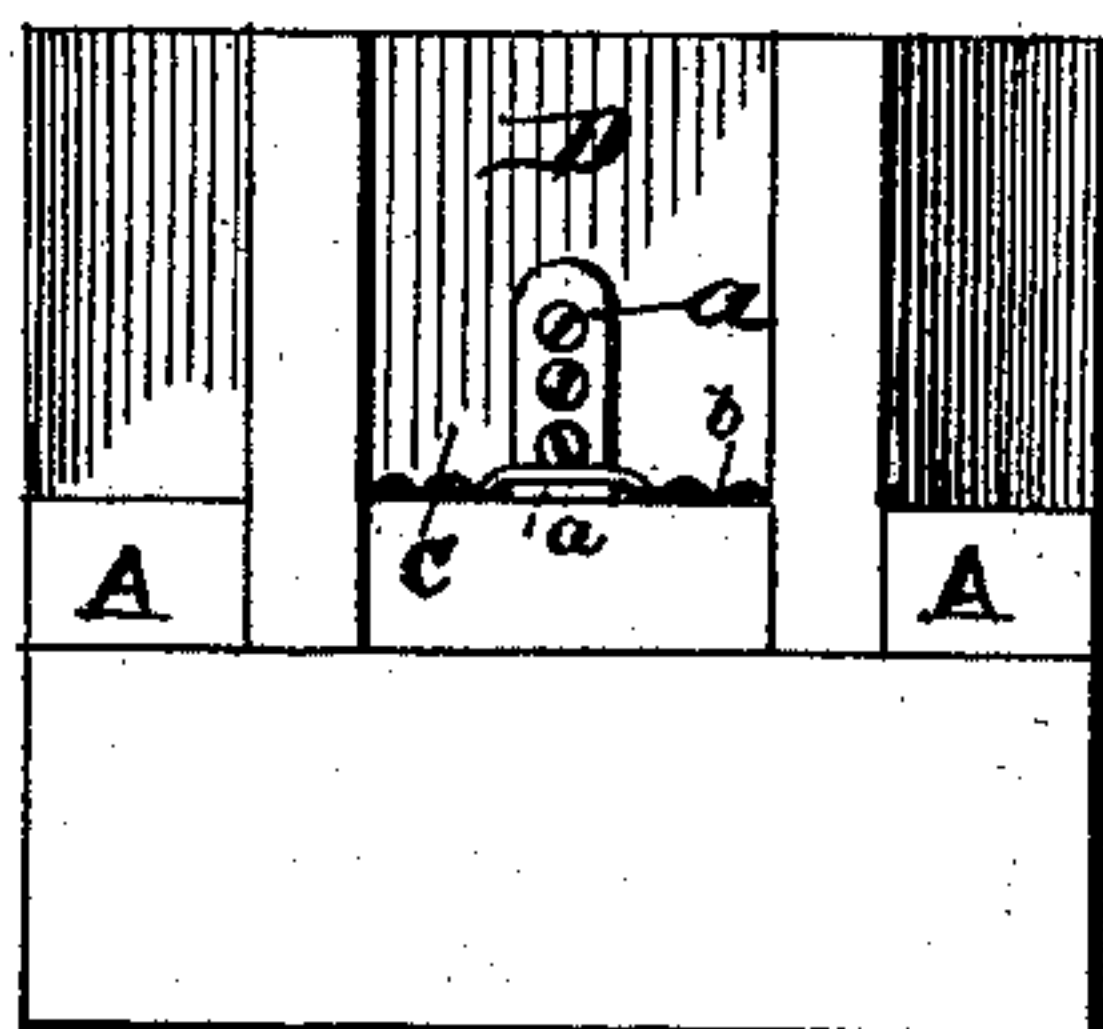


Fig. 2.

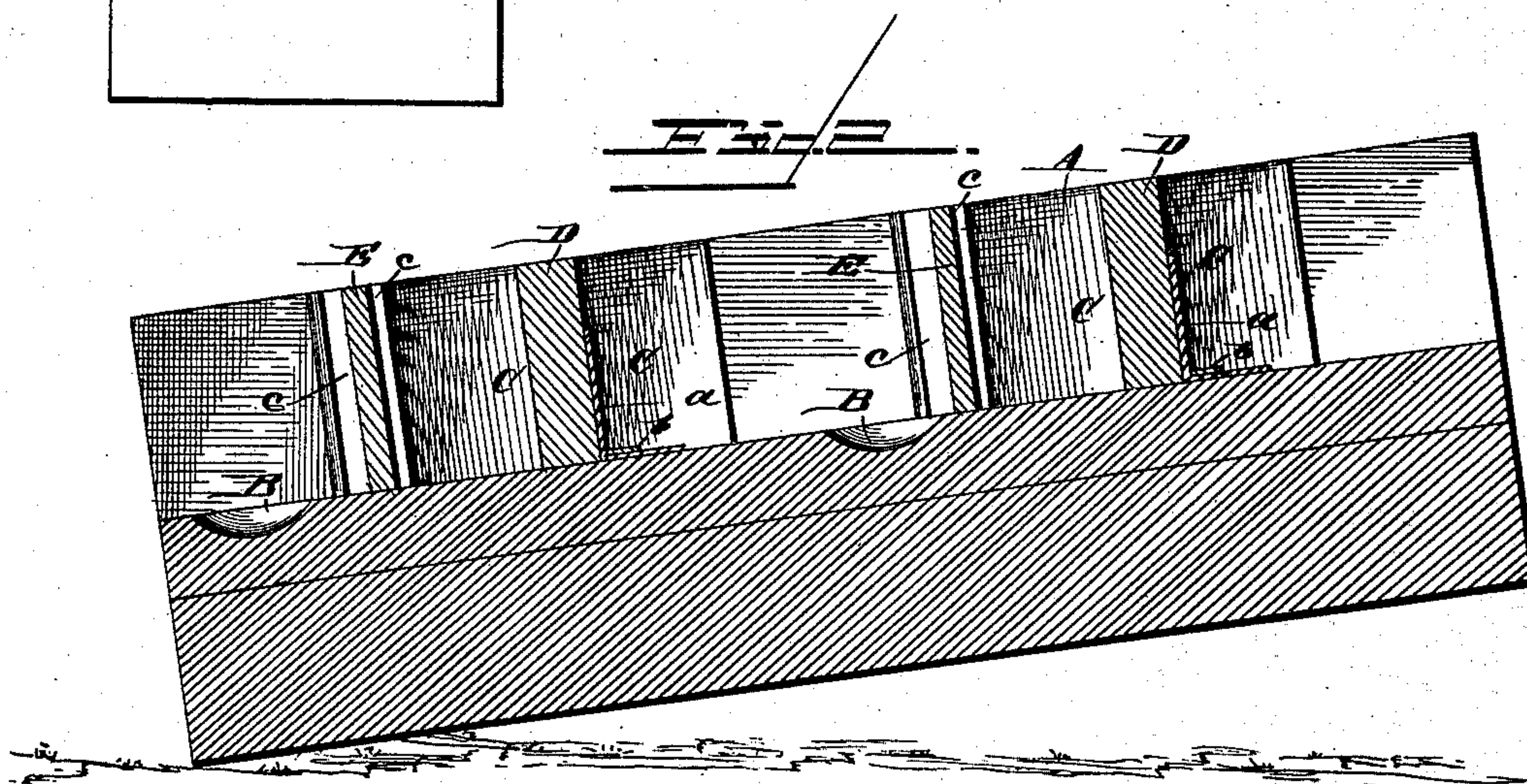


Fig. 3.

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UNITED STATES PATENT OFFICE.

EDWARD A. DODGE, OF SILVER REEF, UTAH TERRITORY.

QUICKSILVER-CATCHER.

SPECIFICATION forming part of Letters Patent No. 410,076, dated August 27, 1889.

Application filed February 26, 1889. Serial No. 301,173. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. DODGE, a citizen of the United States of America, residing at Silver Reef, in the county of Washington, Utah Territory, have invented certain new and useful Improvements in Quicksilver-Catchers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention is directed to certain improvements in quicksilver flumes or collectors, having for its object to readily recover quicksilver while being washed; and it consists of a flume having at suitable intervals apart
15 lateral extensions virtually forming chambers, preferably of proximate diamond shape, and each having centrally thereof a riffle removably applied to the flume bottom or bed, said bed or bottom having therein pans below its
20 surface, or cavities, which collect the quicksilver, as also gates, as will more fully appear from the following description and accompanying illustration, in which—

25 Figure 1 is a plan view of my improved flume or collector, and Fig. 2 is a longitudinal section thereof. Fig. 3 is an end elevation of the same.

In carrying out my invention I employ a trough-like receptacle or flume A, which is
30 disposed in an inclined position, as usual, and has in its bottom pans or cavities B, to collect the precipitated quicksilver from the wash-water, flowing, as it does, through the flume or receptacle A. The sides of the flume or receptacle, at certain intervals or points, are
35 provided with lateral extensions, forming virtually two chambers therein C C, which are preferably of proximate diamond shape. Centrally in each of these chambers is a riffle D,
40 with ends in proximity to the tapering or contracted side extremities of the chamber, whereby the flowing water with the quicksilver is deflected or diverted laterally each way, causing the same to travel over a greater

area in a given amount of space, as well as
45 contracting the passage thereof through the flume or receptacle, which promotes the precipitation of the quicksilver and consequently the collecting of the same. These riffles are each provided with upwardly-curved hook-
50 like brackets *a a*, which catch or take under and pass through keepers or staples *b b*, fastened or applied to the bottom or bed of the flume or receptacle A, said riffles thus being
55 adapted to be readily removed when desired for any cause. Boards or gates E E are disposed in the passage-way of the flume or receptacle A, the same resting against cleats
60 or vertical strips *c c*, fastened to the sides of the flume or receptacle when it is desired to dam up the same, as shown, said boards or gates being removed when the apparatus is in operation.

This machine is simple and efficient for the work assigned to it.

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

The quicksilver collector or flume consisting of the trough-like receptacle having at
70 suitable points approximately diamond-shaped chambers, the riffles disposed about centrally of said chambers, with their ends standing in proximity to the contracted or tapering extremities of said chambers and
75 provided with upwardly-curved hook-like brackets, or catching under and passing through keepers or staples applied to the bottom or bed of said receptacle, cavities below the surface of said bed or bottom, and the
80 gates or boards resting against cleats of the said receptacle, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD A. DODGE.

Witnesses:

JOSEPH A. HARRIS.

MARTIN SLACK.