

UNITED STATES PATENT OFFICE.

WILLIAM A. MERRALLS, OF SAN FRANCISCO, CALIFORNIA.

STAMP-MILL.

SPECIFICATION forming part of Letters Patent No. 753,602, dated March 1, 1904.

Application filed May 27, 1903. Serial No. 158,983. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. MERRALLS, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Stamp-Mills, of which the following is a specification.

My invention relates to improvements in stamp-mill mortars, the object of my invention being to provide a stamp-mill mortar which shall be more economical and effective than those heretofore in use.

My invention therefore resides in the novel construction, combination, and arrangement of parts for the above ends hereinafter fully specified, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a vertical section of my improved mortar. Fig. 2 is a horizontal section on the line A A of Fig. 1.

Referring to the drawings, 1 represents the mortar proper, which has openings on all four sides, as shown, said openings being all provided with guides 2 to receive screens 3.

4 represents a plate upon which the pulp falls and flows toward the front, said plate having a wall 5 along its rear end and side edges.

6 represents an amalgamating-plate coexten-

sive in size with the screens and which can be substituted for a screen in one of the openings, preferably the rear opening, as shown in the drawings. Said plate has horizontal troughs or riffles 7 for catching the precious metal. This plate is of special advantage in milling ore containing free gold; otherwise a screen would preferably be used in the rear opening.

The advantage of this construction is that it enables a screen or an amalgamating-plate to be used interchangeably in the rear opening, according to the nature of the ore to be milled.

I claim—

A stamp-mill mortar having openings on all four sides, screens in three of said openings, and a removable amalgamating-plate closing the fourth opening and coextensive in size with the screens, said plate having horizontal troughs or riffles for catching the precious metal, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM A. MERRALLS.

Witnesses:

FRANCIS M. WRIGHT,
BESSIE GORFINKEL.