

E. O. C. ORD.
MINER'S GOLD PAN.

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1,064,854.

Patented June 17, 1913.

Fig. 1.

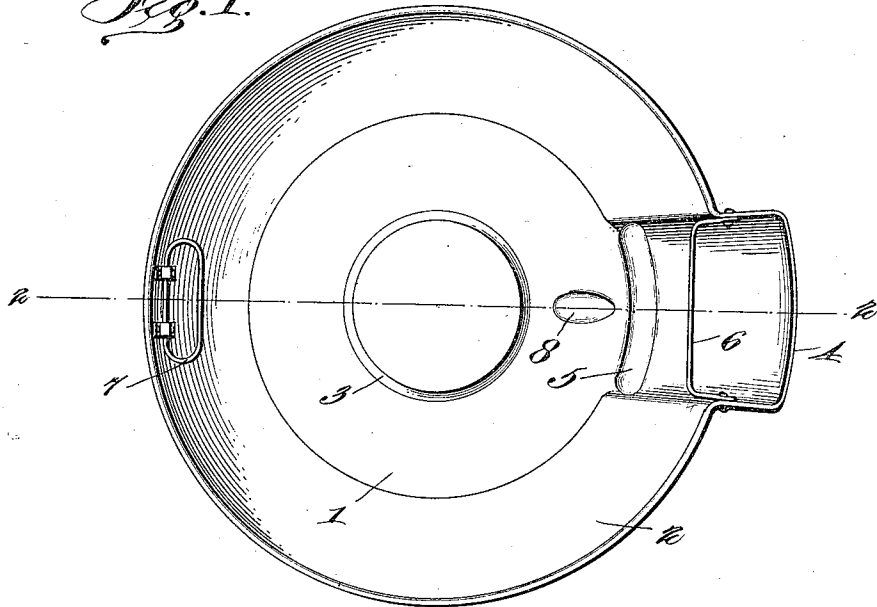
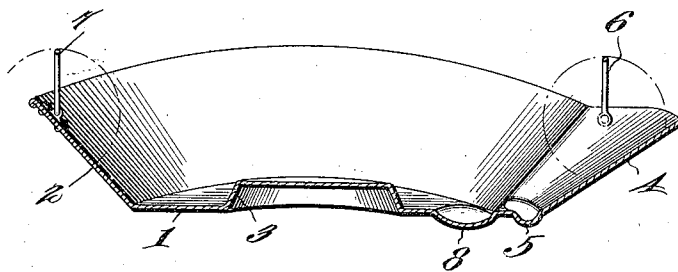


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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MINER'S GOLD-PAN.

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Specification of Letters Patent.

Patented June 17, 1913.

Application filed April 8, 1912, Serial No. 689,135. Renewed November 14, 1912. Serial No. 731,430.

To all whom it may concern:

Be it known that I, EDWARD O. C. ORD, captain, U. S. Army, retired, a citizen of the United States, residing at Florence, in the county of Pinal and State of Arizona, have invented certain new and useful Improvements in Miners' Gold-Pans; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in miners' gold pans, especially adapted for placer washing, and it consists in the constructions, combinations and arrangements herein described and claimed.

An object of my invention is to provide an improved gold pan, by which the peculiar combined tilting and rotary motion necessary for separating the metallic particles from the lighter gangue and waste can be imparted with greater efficiency and sustained with less effort than is possible with existing constructions.

A further object of my invention is to provide an improved gold pan, by which the rich metallic sands can be quickly concentrated by washing off the lighter waste, and the gold particles readily recovered from such remaining concentrates more completely and with less loss than has heretofore been possible.

In the accompanying drawings forming a part of this application, and in which similar reference symbols indicate corresponding parts in the several views:—Figure 1 is a plan view, illustrating one embodiment of my invention; and Fig. 2 is a perspective view of one-half of the improved pan divided on the line 2—2 of Fig. 1.

Referring to the drawings, 1 indicates the base of a pan provided with an outwardly flaring peripheral wall 2 and a central conical boss 3 concentric therewith; said boss preventing settlement of the lighter waste at the center of the pan, and cooperating with the flaring peripheral wall 2 to provide a relatively narrow annular way for the heavier materials.

The pan is provided with a wide and relatively shallow spout 4 inclined outwardly from the bottom thereof and constituting throughout its length a continuation of the peripheral pan wall 2. The spout 4 is shown having a depressed bottom 5, in any way to provide a trap for retaining the heavy gold

particles, but said spout may be flared upwardly from the edge of the pan base 3, if desired.

A bail 6 is pivoted within the spout 4 and adapted to swing in close engagement with the inner walls of the latter, to permit close nesting of the pans; a diametrically opposite bail 7 being pivoted to the peripheral wall 2 of the pan. These bails provide swinging handles, which enable the peculiar combined tilting and rotary motion necessary for separating the metallic particles to be imparted with greater efficiency and sustained with less effort than is possible in existing constructions, and enable the pan to be operated in the usual manner when submerged in water without emersion of the operator's hands.

In the above described improved construction, the lighter waste can be quickly removed by washing, and the gold recovered from the remaining rich concentrates by washing the latter in the broad and relatively shallow flaring spout 4.

The pan base 1 is shown provided with a recess 8 cooperating with the trap 5 of the spout for entrapping the heavy metallic particles, and, if desired, quicksilver could be placed in the recesses 5 and 8 to aid in recovery of the gold.

I have illustrated and described preferred and satisfactory constructions, but changes could be made within the spirit and scope of my invention.

I claim:—

1. A gold pan provided with a spout inclined outwardly from the bottom thereof, and abruptly projecting outwardly from the peripheral wall of the pan to constitute a wide and relatively shallow pocket throughout its length.

2. A gold pan provided with an inclined spout having a bottom formed with a recess or trap, and abruptly projecting outwardly from the peripheral wall of the pan to constitute a wide and relatively shallow pocket throughout its length.

3. A gold pan provided with an inclined spout having a depressed bottom extending laterally from the base of the pan, and abruptly projecting outwardly from the peripheral wall of the pan to constitute a wide and relatively shallow pocket throughout its length.

4. A gold pan provided with a bottom boss projecting upwardly concentrically

with the peripheral wall of the pan to provide a narrow annular way for the heavier materials and prevent settlement of the lighter waste at the center of the pan, and a
5 spout inclined upwardly from the bottom of the pan, such narrow annular way being formed with a recess adjacent to the spout.
5. A gold pan provided with a spout inclined outwardly from the bottom thereof
10 and constituting a continuation of the peripheral wall of the pan, a bail pivoted

within said spout and adapted to swing into close engagement with the walls thereof, and a diametrically opposite bail pivoted to the pan.

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

EDWARD O. C. ORD.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."