

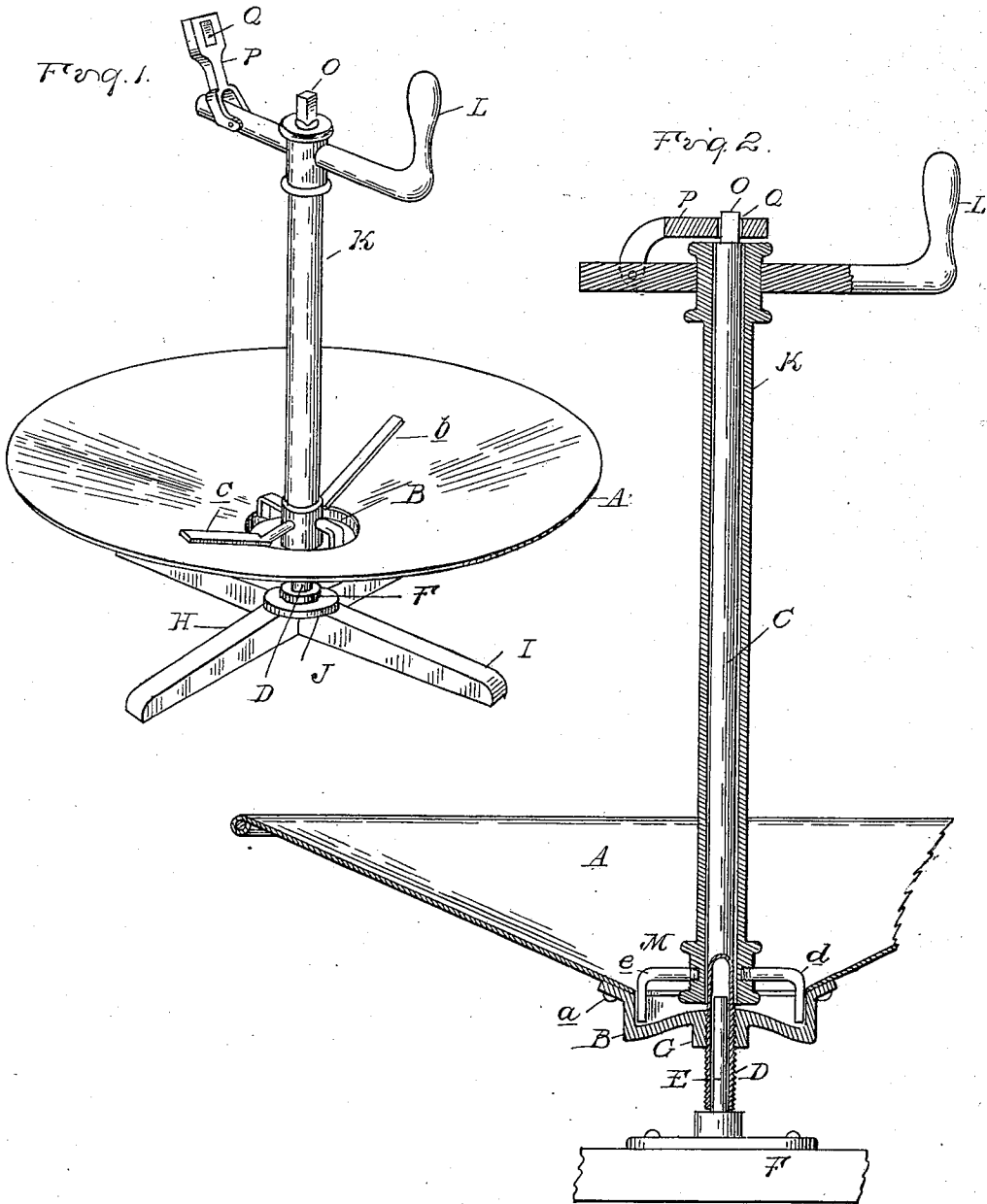
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Patented Dec. 4, 1900.

D. B. NEWKIRK.
GOLD PAN.

(Application filed Jan. 20, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

DANIEL B. NEWKIRK, OF DETROIT, MICHIGAN, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE MINERS SUPPLY COMPANY, LIMITED, OF SAME PLACE.

GOLD-PAN.

SPECIFICATION forming part of Letters Patent No. 663,296, dated December 4, 1900.

Application filed January 20, 1900. Serial No. 2,207. (No model.)

To all whom it may concern:

Be it known that I, DANIEL B. NEWKIRK, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Gold-Pans, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention has particular reference to a centrifugal gold-pan; and it consists in the novel formation of a pan of this type whereby the collection of the gold by the panning process may be more quickly and readily effected.

The invention further consists in the peculiar construction and arrangement of the various parts of the gold-pan, as will be more fully hereinafter set forth, and pointed out in the claims.

Figure 1 is a perspective view of my improved gold-pan in readiness for use, and Fig. 2 is a vertical central section therethrough.

The reference-letter A designates the pan proper, which is preferably conical in configuration and terminates at its apex in a socket-piece B, secured to the pan-body by means of rivets *a*.

C designates an upright or standard secured to and extending centrally from the pan, which standard has a tubular end portion D, adapted to engage over a pin or stud E, mounted upon a base-section F. A preferable manner of attaching the standard or upright to the pan consists in forming a tubular bearing G for the socket depending centrally therefrom and securing the lower end of the standard within said bearing, the parts being held together by corresponding screw-threads formed, respectively, upon the exterior of the standard and the interior of the bearing G, as plainly shown in Fig. 2. The base-section above referred to preferably consists of the base proper, comprising the cross-pieces H and I, suitably secured to each other at their centers, and the circular plate J, attached in any suitable manner to the base and carrying the pin E, before described.

The reference-letter K designates a tubular member adapted to be sleeved over the standard and to rest at its lower end upon the inner portion of the pan-socket.

L is an operating-handle secured to the member referred to, and M designates a stirrer mechanism carried by the tubular member at its lower end. In construction the stirrer devices comprise, essentially, stirrer-blades *b c*, Fig. 1, secured at their inner ends to the member referred to and bent to conform substantially to the configuration of the pan.

d and *e* represent similar stirrer-blades substantially L-shaped in form, which extend downwardly into the socket B in proximity to the bottom of the latter.

The upper or free end of the standard or upright C is provided with a squared end O, and P designates a link pivotally connected at one end with the arm L and having a recess or aperture Q formed in its opposite or free end, conforming in configuration to and adapted to engage over the squared end O.

The particular construction of my invention having been thus set forth the manner of operation is as follows: The structure, as shown in Fig. 1, is placed upon the bed of the stream at such a depth as to permit of the pan proper being entirely submerged, the link being normally out of engagement with the standard. The pan proper is filled with the material from which the gold is to be extracted, and the operator by means of the handle L rotates the blades referred to, thus separating the gold, which falls to the bottom of the pan and is collected in the socket. To remove the foreign material from the pan, the link is thrown into engagement with the standard, thus locking the handle to the pan, and the centrifugal motion imparted to the latter produces the result desired.

From the foregoing description of my invention it will be seen that the rotation of the pan and stirring of the pan contents is effected by means of a single operating device which simplifies the construction of the gold-pan, and in consequence lessens the cost of its manufacture; also, by employing a base-section, such as I have described, the rotation of the pan is more easily accomplished.

While I have shown and described a certain type of stirrer mechanism and an operating device for the same, I do not desire to be limited to this particular style, as other forms could be used without departing from

the spirit of my invention. I have also shown a simple and effective means for locking the operating-handle to the standard; but this also could be varied materially in structure and still be within the scope of what I believe to be my invention.

What I claim as my invention is—

1. In a gold-pan, the combination with the standard, of the pan secured thereto, a tubular member sleeved upon the standard for independent rotary movement, stirrer mechanism carried by the tubular member, an operating device for rotating said tubular member independently of the pan, and means for locking the operating device to the pan, whereby the latter may be rotated after the stirring has been effected.

2. In a gold-pan, the combination with the standard, of the pan fixed thereto, a tubular member sleeved upon the standard for independent rotary movement, stirrer mechanism carried by said tubular member, an operating-handle fixed to the tubular member, and a link pivoted to the handle and adapted to be engaged with the standard after the actuation of the stirrer mechanism has been effected.

3. In a gold-pan, the combination with a base, of a standard rotatively mounted thereon, having its lower end threaded and its

upper end squared, the pan proper carried by the standard and engaging the thread thereon, a tubular member sleeved upon the standard having its lower end resting upon the pan and its upper end extending in proximity to the free end of the standard, stirrer-blades carried by the tubular member, a handle for the latter, and a link pivoted to the handle having its upper end shaped to engage the squared end of the standard.

4. In a gold-pan, the combination with the pan proper having formed centrally therein a cylindrical depression or socket, a standard to which the pan is secured, a tubular member sleeved upon the standard for independent rotary movement, two sets of stirrer-blades carried by the tubular member at its lower end, one set extending upwardly in proximity to the pan and the remaining set projecting downward into the pan-socket, a handle for rotating the tubular member, and a link attached to said handle and adapted to be engaged with the standard, substantially as described.

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

DANIEL B. NEWKIRK.

Witnesses:

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H. C. SMITH.