No. 668,982.

Patented Feb. 26, 1901.

M. COVEL.

SCOOP.

(No Model.)

(Application filed Apr. 26, 1900.)

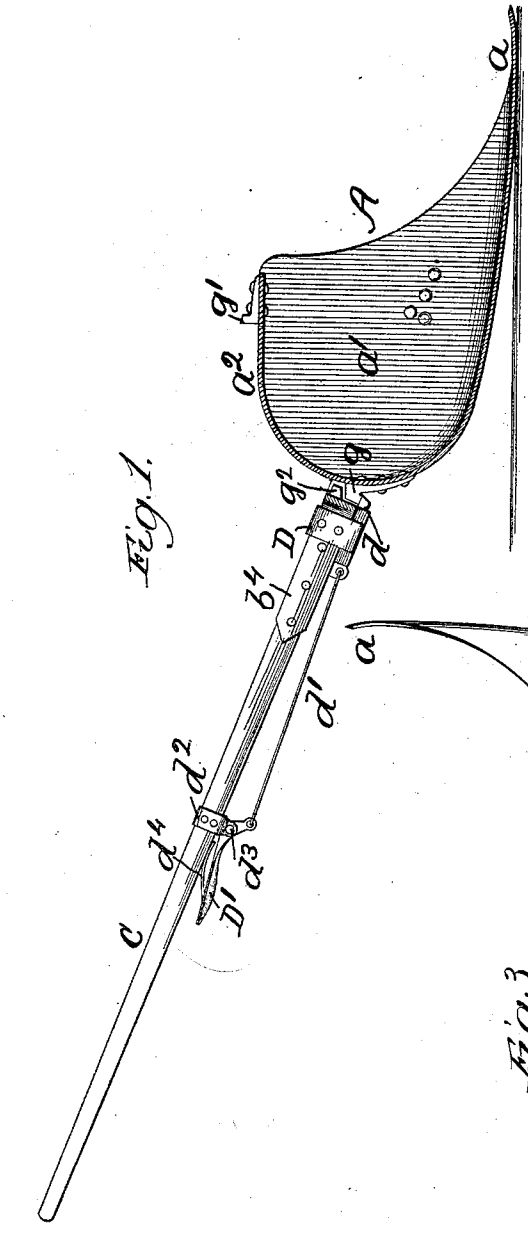


Fig. 1.

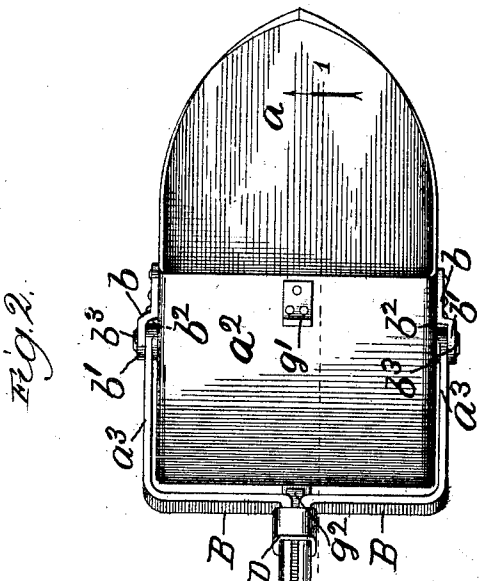


Fig. 2.

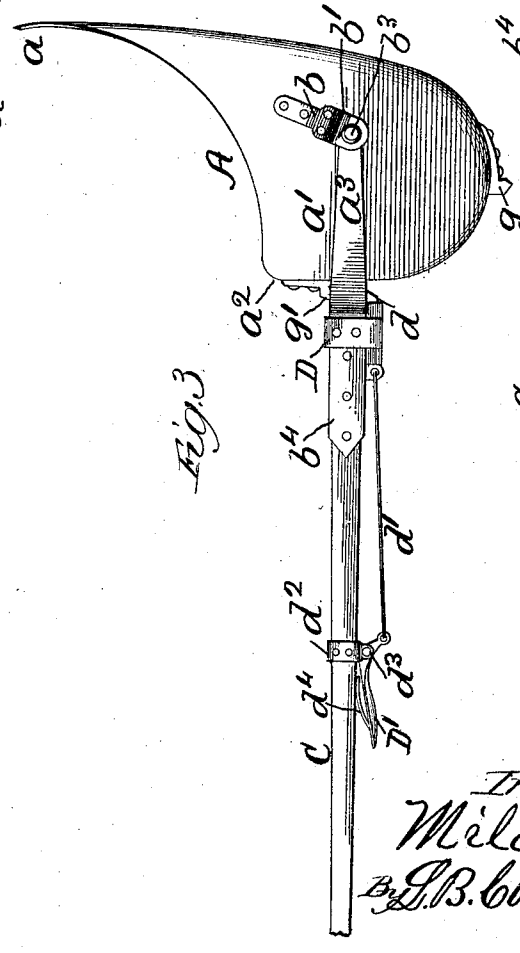


Fig. 3.

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UNITED STATES PATENT OFFICE.

MILO COVEL, OF CHICAGO, ILLINOIS.

SCOOP.

SPECIFICATION forming part of Letters Patent No. 668,982, dated February 26, 1901.

Application filed April 26, 1900. Serial No. 14,388. (No model.)

To all whom it may concern:

Be it known that I, MILO COVEL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Shovel or Scoop; 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.

This invention relates to a hand shovel or scoop for excavating under water, and is more especially intended for use in removing gold-bearing earth and sand from the beds of rivers and mountain streams in which precious metals have been naturally deposited.

It is well known that but very little earthy matter can be removed from the bottom under water by means of the ordinary miner's shovel, as the wash of the water dislodges the greater part, if not all, of the load before it can be raised above the surface.

The object, therefore, of this invention is to provide an adjustable device by which the work of excavating under water is greatly facilitated and a full load removed at each operation.

In the accompanying drawings, Figure 1 is a part elevation and part longitudinal section on line 1, Fig. 2, looking in the direction indicated by the arrow. Fig. 2 is a plan; and Fig. 3 is an elevation, the shovel-scoop being shown in its opposite position from that illustrated in Figs. 1 and 2.

A represents a scoop-shovel, which will ordinarily be made of suitable sheet metal, and consists of the pointed shovel part a, the inclosing sides a', and the top a^2, forming a bucket-like receptacle. The shovel-point extends beyond the line of the inclosed sides and top, as shown, so that it will penetrate the earth as easily as the ordinary shovel-blade.

The scoop-shovel is pivotally mounted between the respective arms a^3 of a bail or yoke B, so that it is adapted to have a swinging movement and occupy two different positions, one position being parallel with the handle C, as shown in Figs. 1 and 2. The second position is approximately at right angles with reference to the first position, as shown in Fig. 3. To the opposite outer sides of the scoop part are rigidly secured the companion brackets b. The angle ends b' of these brackets provide a space b^2 between the inner sides thereof and the adjacent sides of the scoop for the insertion of the respective outer ends of the bail-arms a^3. A pivot-pin b^3 is rigidly fixed in the angle ends of the brackets b and pivotally engages the ends of the bail-arms and provides for the swinging movement of the scoop-shovel. The rear ends b^4 of the bail clamp the end of the handle C on opposite sides and are rigidly secured thereto. A clip D is mounted on the bail ends b^4 and forms a retaining-guide for the endwise-sliding bolt d. One end of a rod d' is connected to the outer end of this bolt and the opposite end to the hand-lever D', pivoted to the clip d^2, as at d^3. The spring d^4 acts to return the bolt d to its normal position when the hand-pressure is relaxed. A lug g is rigidly secured to the exterior bottom end of the scoop and with which the bolt d is adapted to engage and lock the scoop in the position shown in Fig. 1. A companion lug g' is secured to the upper side of the scoop, which is adapted to come in contact with a stop g^2, formed on the end of the handle, and limit the swinging movement of the scoop to the position shown in Fig. 3. The stop g^2 also limits the movement of the scoop in the opposite direction, as the lug g comes in contact with the opposite side thereof when thrown into the normal working position. (Shown in Figs. 1 and 2.) When a load has been scooped up, the bolt d is retracted from its locking position by pressing on the hand-lever controlling the movement of the same. Now by a proper manipulation of the handle and the preponderance of weight in the back part of the scoop the same will automatically swing into the position at right angles to the handle and a full load may be raised each time. The load is then discharged and the scoop returned to its normal position and the operation repeated.

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

1. A scoop-shovel, comprising a scoop-receptacle, a bail or yoke, in which the same is pivotally mounted, the handle part, a locking-bolt, for retaining the scoop in line parallel with the handle, and means for releasing said

bolt to permit of the scoop swinging into a position at right angles with reference to the handle, substantially as described.

2. In a scoop-shovel, the combination with a scoop-receptacle, of a bail or yoke, in which the same is pivotally mounted, the handle, secured to said bail, a locking-bolt, for retaining said scoop in a position parallel with the handle, and means for limiting the swinging movement of said scoop between its normal working position and the position at right angles thereto, substantially as described.

3. In a scoop-shovel, the combination with a handle, of a scoop-receptacle, pivotally connected thereto and adapted to have a swinging movement in changing its working position, a locking-bolt, a lug, secured to the under side of the scoop and with which said bolt engages, in retaining the same in its position parallel to the handle part, a companion lug, secured to the upper side of the scoop, and a stop, for limiting the swinging movement of said scoop to its right-angle position, substantially as described.

4. In a scoop-shovel, the combination with a scoop-receptacle, of its supporting-handle, from which the scoop is pivotally supported, the companion lugs, secured to the opposite sides of said scoop, a stop, with which said lugs are adapted to engage alternately in limiting the swinging movement of the scoop, the locking-bolt, the hand-lever, and the connecting-rod for retracting said bolt, substantially as described.

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

MILO COVEL.

Witnesses:
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