

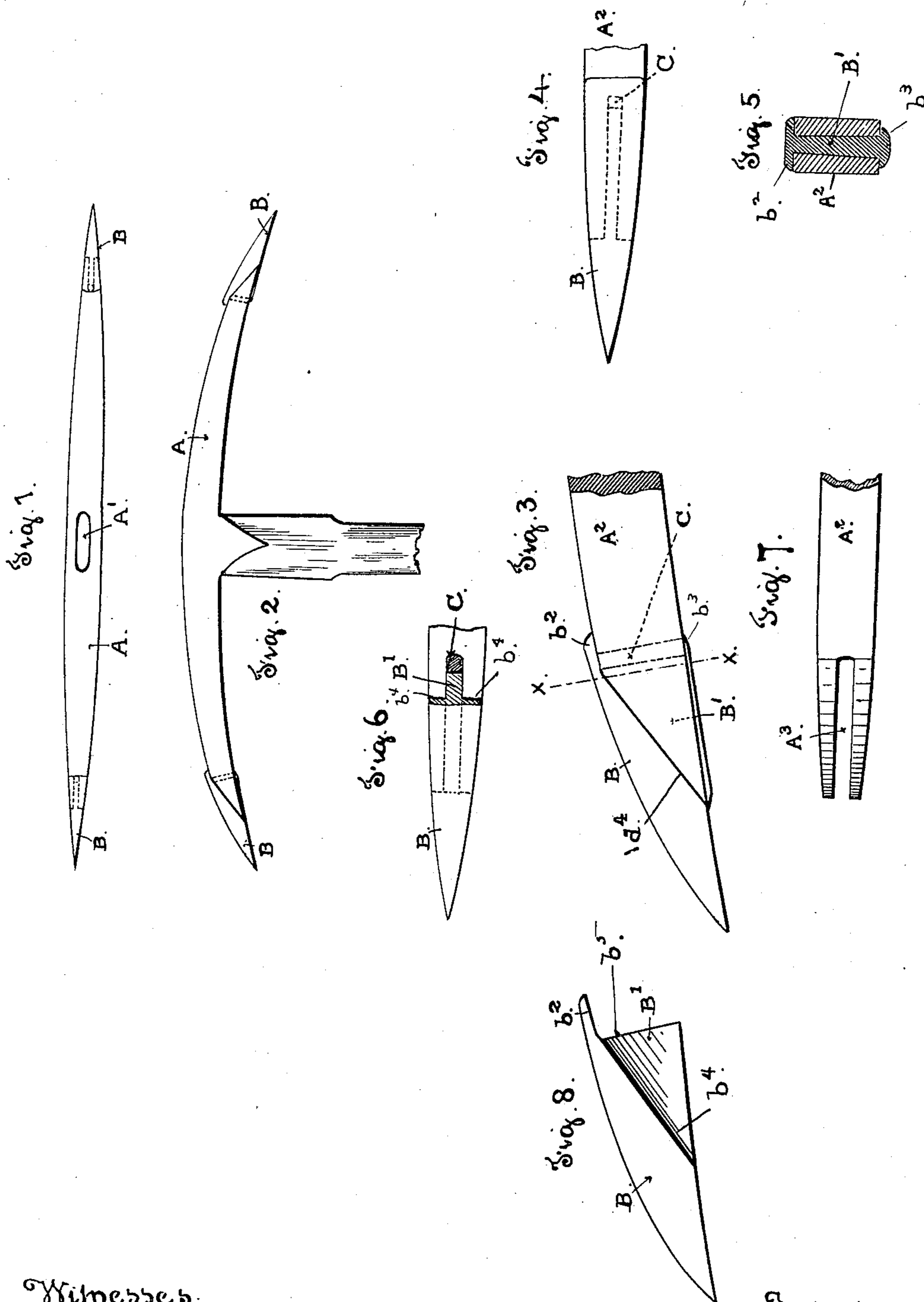
No. 618,377.

Patented Jan. 24, 1899.

E. DALY.
MINER'S PICK.

(Application filed Mar. 15, 1898.)

(No Model.)



Witnesses:

M. Regner
E. Salomon

Inventor:

Edmond Daly,
By ~~Smith & Osborn~~
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UNITED STATES PATENT OFFICE.

EDMOND DALY, OF MONTEREY, CALIFORNIA.

MINER'S PICK.

SPECIFICATION forming part of Letters Patent No. 618,377, dated January 24, 1899.

Application filed March 15, 1898. Serial No. 673,975. (No model.)

To all whom it may concern:

Be it known that I, EDMOND DALY, a citizen of the United States, residing in the city and county of Monterey, State of California, have invented certain new and useful Improvements in Miners' Picks, of which the following is a specification.

My invention relates to the production of an improved pick with removable tips which can be easily removed from the stem when broken or dulled, whereby the cost of repairs is considerably reduced, all as hereinafter fully described, and pointed out in the claims at the end of this specification.

The following description explains the nature of my improvements and the manner in which I proceed to construct and produce a pick in accordance therewith, reference being had to the accompanying drawings.

In the said drawings, Figure 1 is a plan or top view of a pick-head constructed according to my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a side elevation, on an enlarged scale, of one end of the pick-head and its detachable point. Fig. 4 is a top view of Fig. 3. Fig. 5 is a cross-section through Fig. 3 at the line xx . Fig. 6 is a top view of Fig. 3 with the base of the detachable point broken away to expose the body of the pick beneath. Fig. 7 is a top view of the end portion of the pick-head with the detachable point omitted, and Fig. 8 is a side view of the detachable point.

A indicates the pick-head, and A' the socket for the handle.

B is a detachable point that is fixed on the end of the pick-head and forming the working point of the head. The manner of constructing and of securing this point to the end of the pick-head is as follows: The part B is shaped to conform to the curvature of the end of the pick-head. It is formed also with a tongue B', of reduced thickness, on the heel or that portion which comes next to the end of the pick-head and with a top flange b^2 , extending beyond the rear end of the tongue. The tongue is of proper thickness to fit closely into a slot A³ in the end portion A² of the pick-head and of sufficient breadth to project slightly beyond the bottom face of the part A², so as to furnish a proper amount of metal

for swaging or spreading the tongue over the sides of the slotted portion of the pick-body to fix the point in place, as indicated at b^3 , Figs. 3 and 5 of the drawings. The body portion is finished with a beveled face a^4 , and the part B, where the tongue joins the body of the point, is formed on a slant to produce the inclined shoulders b^4 b^4 , as shown in Fig. 8. The bottom of the slot A³ is finished square or at right angles to the general line of the pick-body, and the heel b^5 of the tongue is finished on the same angle, so as to fit against the bottom of the slot. A cushion of lead C is inserted between the heel of the tongue and the end of the slot before the point is inserted and fixed. Sufficient room for this cushion is provided by making the slot longer than the tongue, and the lead when inserted is retained in place by the flange b on the top and the swaged metal on the bottom. By this means of forming and fixing the detachable point on the pick-head I dispense with the use of keys, pins, and similar fastening devices and at the same time provide for detaching a point when it is worn or broken and substitute a new one.

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

1. The combination with the pick-head having a slot in the end; of the detachable point having a tongue to fit the slot, an overhanging top flange and an excess of metal on the lower edge of the tongue for swaging the tongue over the edges of the slot.

2. The combination with the pick-head having the slotted end portion with a slanting top face; of the detachable point having a tongue for inserting in the slot, an overhanging top flange, and an excess of metal along the lower edge of the tongue for swaging the same over the sides of the slot, and the cushion interposed between the heel of the tongue and the back of the slot.

In testimony that I claim the foregoing I have hereunto set my hand and seal.

EDMOND DALY. [L. S.]

Witnesses:

C. W. M. SMITH,
CHAS. E. KELLY.