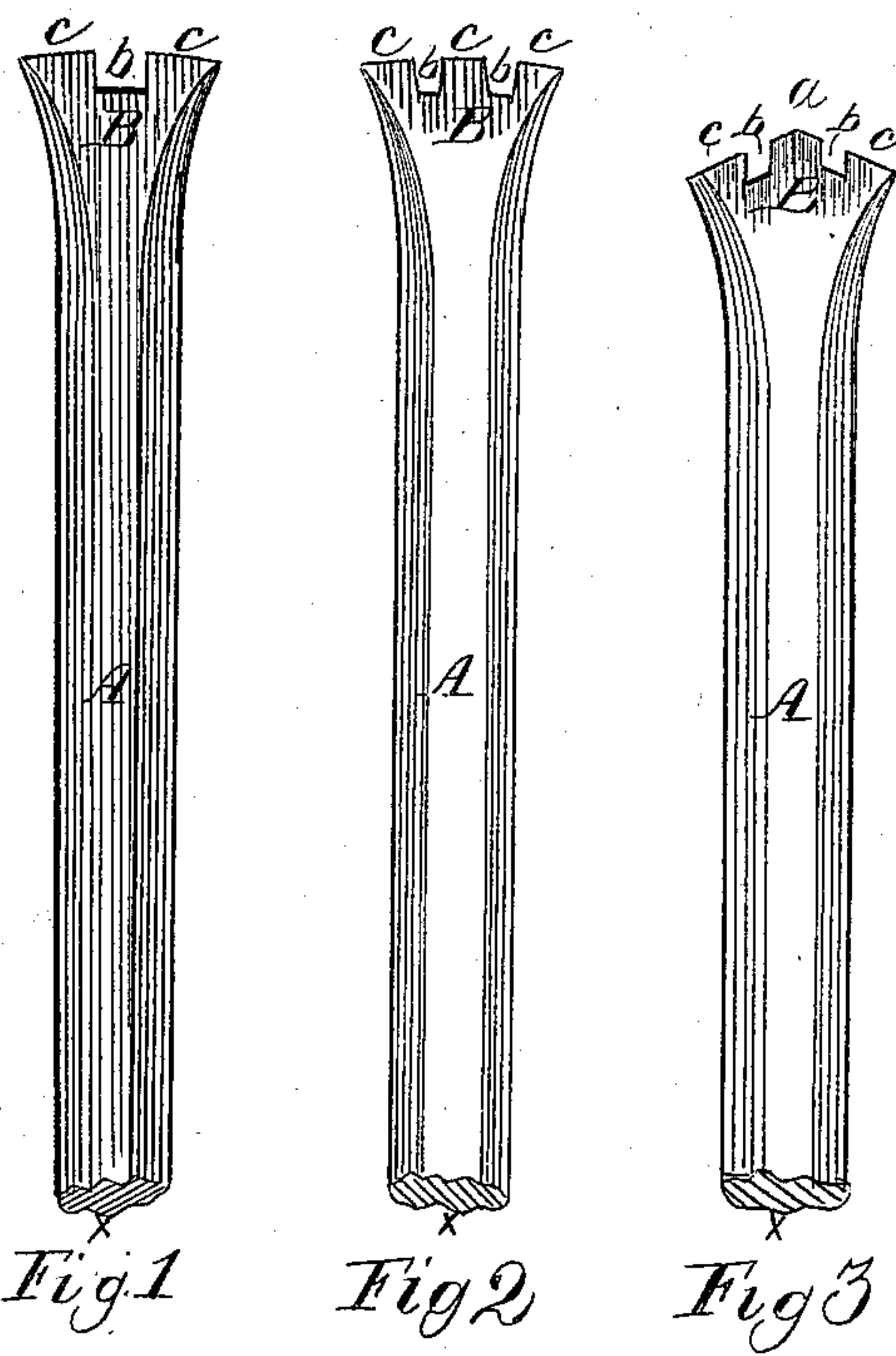


C. H. Davis,

Rock Drill.

No. 93684.

Patented Aug. 17. 1869.



Witnesses.

Inventor.

Samuel Murch *Charles H. Davis.*
E. M. Duffy

United States Patent Office.

CHARLTON H. DAVIS, OF SAN FRANCISCO, CALIFORNIA.

Letters Patent No. 93,684, dated August 17, 1869.

IMPROVED ROCK-DRILL POINT.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, CHARLTON H. DAVIS, of San Francisco, in the county of San Francisco, and State of California, have invented a new and improved Rock-Drill Point; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1, 2, and 3, represent my improvements in drills.

Similar letters of reference indicate corresponding parts.

The nature of my invention consists in the construction or formation of the point of a rock-drill, as hereinafter more fully described.

A is the body or shaft of the drill, a greater portion of which is broken away at *x*, a short distance from the point B of the same.

In the end B is formed one or more notches or recesses *b*, which extend a short distance into the edge of the drill-point B.

It has been ascertained, by actual experiment, that when the cutting-edges of drills are reduced by these notches, the remaining parts will cut faster propor-

tionately as the same are reduced, (the required strength for the cutting-parts being preserved,) and that the cutting has the effect to break away the rock at the central parts, or the parts corresponding to the recesses of the drills, in such a manner as to be a great economy of time and labor in drilling.

The notches or recesses *b* can be made of any suitable shape, configuration, or size, so as to reduce the length of the cutting-edge *c*, to admit of the rock opposite the recesses or depressions being easily broken off from the solid rock at the bottom of the hole by the action of the parts of the drill-points not removed.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

Rock-drill points, provided with one or more notches or recesses *b*, substantially as herein shown and described, and for the purpose set forth.

The above specification of my invention signed by me, this 15th day of June, 1869.

CHARLTON H. DAVIS.

Witnesses:

FRANK BLOCKLEY,
ALEX. F. ROBERTS.