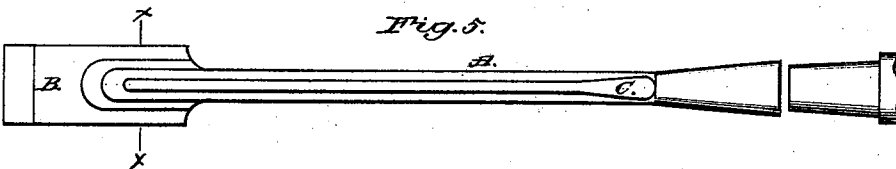
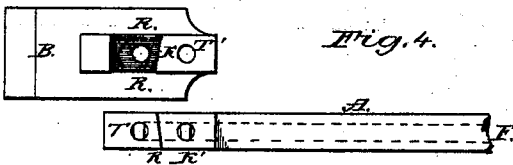
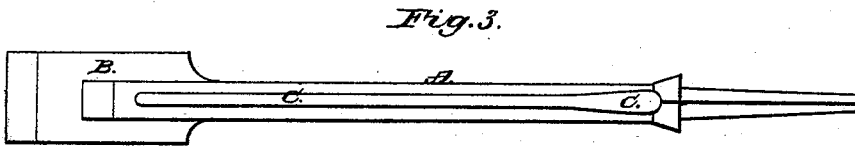
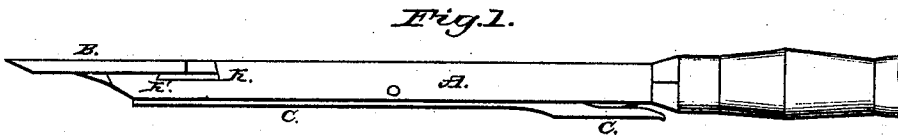
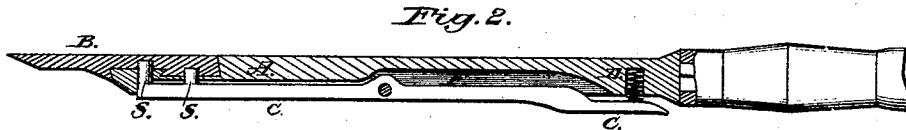


C. E. L. JELLIFFE.
CHISEL.

No. 171,815.

Patented Jan. 4, 1876.



Witnesses:

Inventor:

John M. Mahon,
George F. Spencer

Chas. E. L. Jelliffe

UNITED STATES PATENT OFFICE.

CHARLES E. L. JELLIFFE, OF BAYONNE, NEW JERSEY.

IMPROVEMENT IN CHISELS.

Specification forming part of Letters Patent No. **171,815**, dated January 4, 1876; application filed June 21, 1875.

To all whom it may concern:

Be it known that I, CHARLES E. L. JELLIFFE, of the city of Bayonne, county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Chisels; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of the same, in which—

Figure 1 represents a side view. Fig. 2 represents a sectional view. Figs. 3 and 5 represent bottom views. Fig. 4 represents the cutting-bit and chisel-blade detached. Fig. 6 represents a sectional view cut through line *x x*. Fig. 5.

Like letters in all the figures refer to the same parts.

My invention consists in certain improvements in chisels, whereby the chisel blade or shank is adapted to receive and hold in succession different widths and shapes of bits, for the purpose of making different widths and shapes of cuts, as will be hereafter more fully explained.

The manner of constructing and operating said improvements is as follows: I take a chisel-blade, shank, or other strip of suitable metal, to which a "tang" or "socket" is forged or formed, for the purpose of affixing the handle or holder, similar to an ordinary chisel, (see Figs. 1, 2, 3, 4, 5, and 6, *A*.) and on its outer end, and on one side thereof, which I herein designate the top side, mill out or otherwise form a dovetail, scarf-joint, or other suitable device, *K*, and on one side of another piece or pieces of suitable metal, *B*, mill out or otherwise form a similar joint, *K'*, so that the joint on the one, when slipped laterally or otherwise placed together, will fit into the space or spaces on the other, and brace or hold against pressure applied at the end of the instrument, (this latter piece *B* being the cutting-bit,) and when so placed together to keep them from working apart when the instrument is in use, and also of allowing the cutting-bit *B* to be attached to, and detached from, the chisel blade or shank *A* readily and instantaneously. On one side of the aforesaid shank or blade *A*, which I herein designate the bottom side, I mill out or otherwise form a groove or slot, *F*, running lengthwise therewith nearly

its full length, into which I insert a pivoted spring-catch, *C*, having a thumb-piece on its upper end, under which there is a spring or other suitable device, and on its outer end form one or more prongs, *S S*, said prongs extending through and working in holes or indentures *T*, formed in the outer end of the chisel blade or shank *A*, so that when the cutting-bit is slipped laterally or otherwise placed thereon, the prongs catch into the holes or indentures *T'*, formed therein, thereby keeping the cutting-bit firmly in place, and from working loose or off its seat when the instrument is in use.

It will also be seen, in the aforesaid described form or mode of securing the cutting-bit to the chisel blade or shank, that if the dovetail or scarf joints *K K'* are cut or formed at right angles with the cutting-bit and chisel blade or shank it would require a nicety of adjustment when placed together, that the prongs might instantaneously catch into the holes or indentures *T'* in the cutting-bit; but to obviate this I cut or form the said joints *K K'*, both on the bit and shank, (either on the right or left side thereof, as deemed convenient in using,) diagonally therewith, (see Fig. 4, *R R*;) or, in other words, one side I make slightly wider than the other, so that when placed together it fits accurately in its proper position at once.

Figs. 5 and 6 represent bottom sectional and side views of a chisel blade or shank, *A*, and cutting-bit *B*, having the dovetail or scarf joints *K K'* milled out or otherwise formed lengthwise therewith, this latter form being equally simple, and I believe to be an equivalent mode of fastening the cutting-bit to the chisel blade or shank to the one heretofore described; but I prefer the former, as shown in Figs. 1, 2, 3, 4, the cutting-bit being more easily handled and adjusted thereon when in use.

The operation is as follows: When the cutting-bit is adjusted on the chisel-blade (the spring-catch, to allow of such adjustment, having previously had its prongs withdrawn by means of pressure on the thumb-piece) the upward pressure of the spring forces the prongs into the holes or indentures in the cutting-bit, and holds it there firmly on the blade or shank in place for use.

This arrangement admits of the easy and instantaneous adjustment and detachment from the chisel blade or shank of as many sizes and forms of cutting-bit as widths and forms of cut are required.

Now, having fully described my invention, what I desire to claim and secure by Letters Patent is—

The bit B, in combination with the shank A and the spring-catch C, substantially as and for the purposes set forth.

CHAS. E. L. JELLIFFE.

Witnesses:

JOHN McMAHON,
GEORGE F. SPENCER.