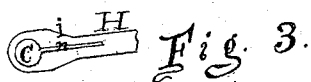
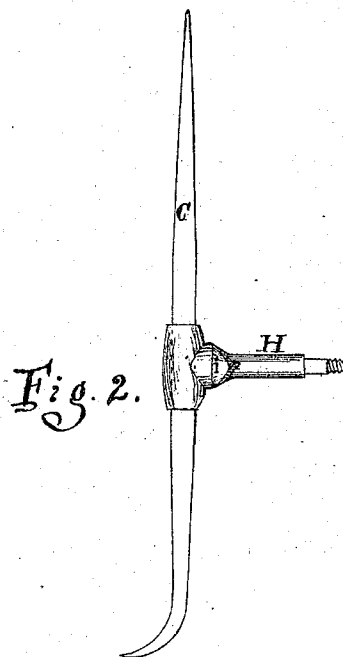
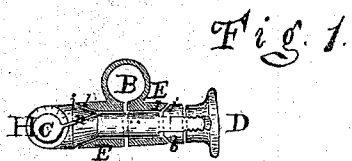


WILLIAM F. CORNELL.
Improvement in Surface Gauges.
No. 115,438. Patented May 30, 1871.



Witnesses:

John B. Tyson
Lucien P. Rice

Inventor:

W. F. Cornell

UNITED STATES PATENT OFFICE.

WILLIAM F. CORNELL, OF ADRIAN, MICHIGAN.

IMPROVEMENT IN SURFACE-GAGES.

Specification forming part of Letters Patent No. 115,438, dated May 30, 1871; antedated May 26, 1871.

I, WILLIAM F. CORNELL, of Adrian, in the county of Lenawee and State of Michigan, have invented a new and useful Improvement in Surface-Gages, of which the following is a specification:

The nature of my invention consists of an improved mode of constructing the T-headed arbor H which was described and represented in the drawing and specification of my improved surface-gage patented August 18, 1868, No. 81,144.

In the drawing, Figure 1 is a side view of such a T-headed arbor, and embodies my invention. Fig. 2 is a transverse view of the same. Fig. 3 is a modified form of the same.

H, Figs. 1 and 2, represents my present improved T-headed arbor; and my improvement consists in the tapering shoulder *i* on the hollow head H, the slot or opening *n* through said

shoulder and into the hollow of said head, and the flaring recess *l* in the end of the hollow clasp E, in virtue of which the end of clasp E will, when the nut D is turned, ride upon the conical shoulder *i*, thereby pressing it together and causing it to clasp the pointer C and hold it in any desired position. The slot or opening *n* is designed to be sawn from the opening in the cylindrical head out at the base of conical shoulder *i*; or I have designed running it out parallel, as shown at Fig. 3.

I claim as my improvement, jointly—

The tapering shoulder *i* on the head H, the slot or opening *n*, and the recessed seat *l* in the end of clasp E, as and for the purpose set forth.

Witnesses:

WM. F. CORNELL.

JOHN B. TYSON,

LUCIEN P. RICE.