

A. Steinbok,

Wood Auger.

N^o 80,515.

Patented July 28, 1868.

Fig: 1.

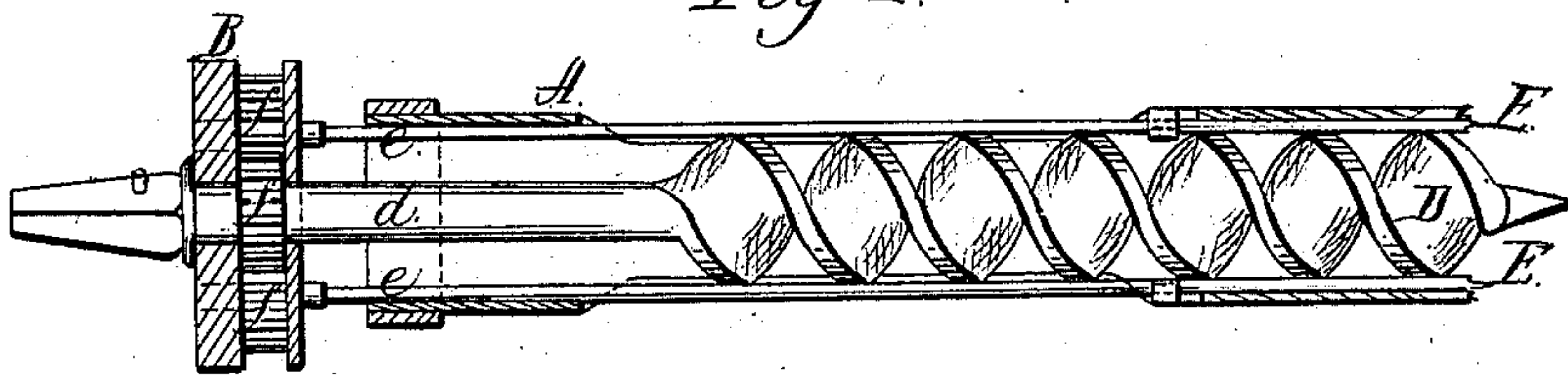
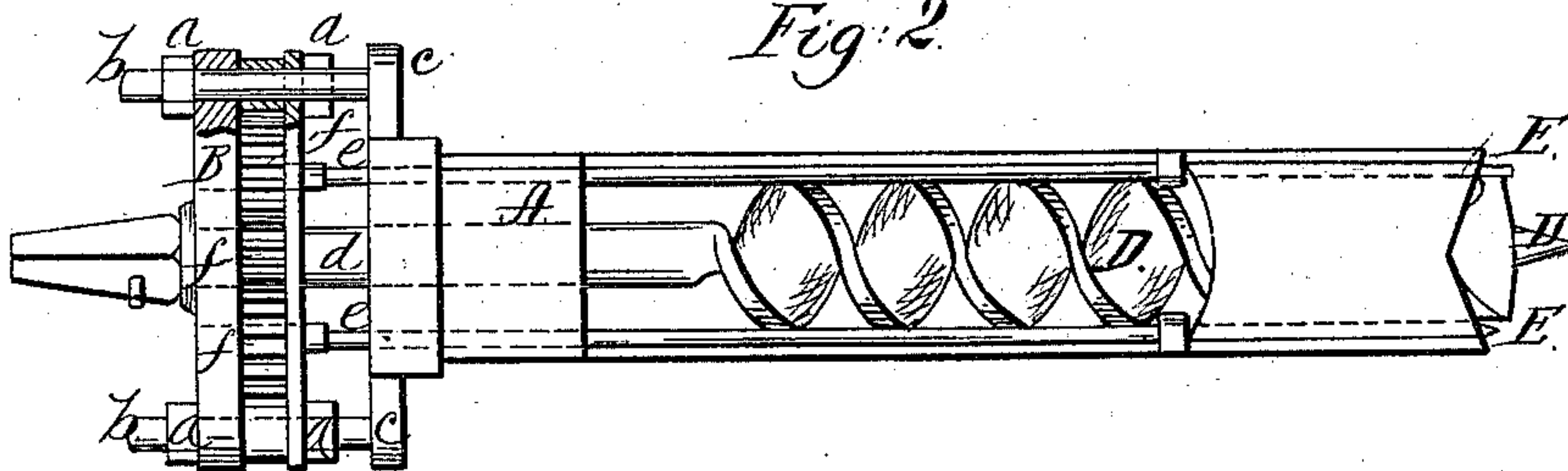


Fig: 2.



Witnesses:

E. F. Kastenhuber

Chas. Wahlers.

Inventor:

Aug. Steinbok

*Per
Van Sartre & Hauff
Attys.*

United States Patent Office.

AUGUST STEINBÖK, OF NEW YORK, N. Y.

Letters Patent No. 80,515, dated July 28, 1868.

IMPROVEMENT IN BORING-TOOLS.

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, AUGUST STEINBÖK, of New York, in the county and State of New York, have invented a new and useful Improvement in Boring-Tools; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which drawing—

Figure 1 represents a longitudinal central section of this invention.

Figure 2 is an elevation of the same.

Similar letters indicate corresponding parts.

This invention consists in the arrangement of four or more gimlets and an auger in the interior of a square (or polygonal) case, said gimlets and auger being geared together, and the edges of the case being sharpened in such a manner that by imparting to the auger a revolving motion, the gimlets are also caused to revolve, and by the combined action of the auger, the gimlets, and the case, a square (or polygonal) hole can be bored with ease and facility.

The invention consists also in the arrangement of an adjustable frame at the head of the case, said frame being made to form the bearing for the shanks of the auger and of the gimlets, in such a manner that the points of the auger and of the gimlets can be set in the proper relative position towards the cutting-edge of the case.

A represents a case, which is square or polygonal, according to the desired shape of the hole to be bored, and which is made of sheet steel, either of a solid tube, or of a series of sections fastened together in any desirable manner. The sides of the case are partially cut away, so that the shavings or borings have room to escape, and the bottom end of the case is sharpened, as shown in the drawing.

To the head of the case is secured a frame, B, composed of two plates, which are secured by nuts *a*, and fastened to the case by studs *b*, rising from lugs *c*, which project from the sides of the case.

The frame B forms the bearings for the shanks *d e* of the auger D and of the gimlets E. The auger extends down through the centre of the case, and the sides of the case are in close proximity to the circumference of the auger, while the gimlets occupy the corners of the case, as shown. The shanks of the auger and of the several gimlets are geared together by pinions *f*, which are situated between the plates of the frame B, so that by imparting a revolving motion to the auger, the gimlets are also revolved.

By raising or lowering the frame B on the studs *b*, the points of the auger and of the gimlets can be brought in the proper relative position towards the cutting-edge of the case A.

In order to bore a hole, I insert the square end of the auger into a brace, and by pressing its point up against the wood and revolving the brace, the boring is effected. By the combined action of the auger and of the gimlets, the wood encompassed by the case is almost entirely removed, so that a comparatively slight pressure on the end of the auger is sufficient to cause the cutting-edges of the case to clean out the corners, and to produce a smooth, square (or polygonal) hole at one operation.

I am aware that an auger has been used in combination with a case enclosing the same, and I do not wish to claim this arrangement as my invention.

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

The adjustable frame B, in combination with the auger D, gimlets E E, and the case A, provided with cutting-edges, constructed and operating substantially as described.

Witnesses:

W. HAUFF,
E. F. KASTENHUBER.

AUGUST STEINBÖK.