

P. KAVANAGH.
Improvement in Augers.

No. 131,279.

Patented Sep. 10, 1872.

Fig. 1

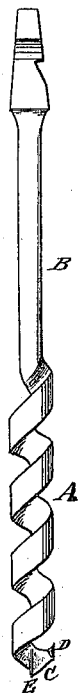


Fig. 2

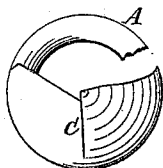
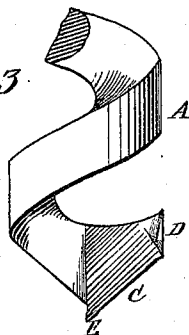


Fig. 3



Witnesses:

A. W. Almqvist
N. A. Graham

Inventor:

P. Kavanagh
PER *Wm. L.*
Attorneys.

UNITED STATES PATENT OFFICE.

PATRICK KAVANAGH, OF CANARSIE, NEW YORK.

IMPROVEMENT IN AUGERS.

Specification forming part of Letters Patent No. 131,279, dated September 10, 1872.

Specification describing a new and useful Improvement in Auger-Bits, invented by PATRICK KAVANAGH, of Canarsie, in the county of Kings and State of New York.

This invention relates to a new and useful improvement in the construction of augers having a single twist; and it consists in a single-twist auger having a center entering cutting-point, a diagonal cutting-lip extending from the center to the circumference of the auger, and an upright circumferential cutting-lip, as hereinafter described.

In the accompanying drawing, Figure 1 represents a view of the improved auger-bit. Fig. 2 is an end view enlarged. Fig. 3 is a side view enlarged, showing the cutting-lip.

Similar letters of reference indicate corresponding parts.

A is the auger. B is the shank. C is the improved cutting-lip. This lip extends from the center of the auger back to the circumference at an angle of about forty-five degrees to the axis of motion, sloping upward, and forming an obtuse angle with and terminating in an upright circumferential cutting-lip, D, the edge of which is parallel with the axis of

the auger. E is the center entering and cutting point of the lip C, and the center of the auger. This auger, it will be seen, commences cutting at the center and consequently it does not tear but cuts the grain of the wood smoothly, both in commencing and finishing a hole. Augers with lips placed at right angles with the axial line tear the wood in commencing and in finishing a hole through a piece of timber; besides, they are more likely to clog and require more power to force them through the wood than it does with my improved lip, constructed with the center entering and cutting point E.

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

A single-twist auger having the center entering and cutting point E, inclined floor-lip C, and upright circumferential lip D, constructed in the manner substantially as described.

PATRICK KAVANAGH.

Witnesses:

JAMES T. GRAHAM,
T. B. MOSHER.