

W. WELLS.

Auger.

No. 162,874.

Patented May 4, 1875.

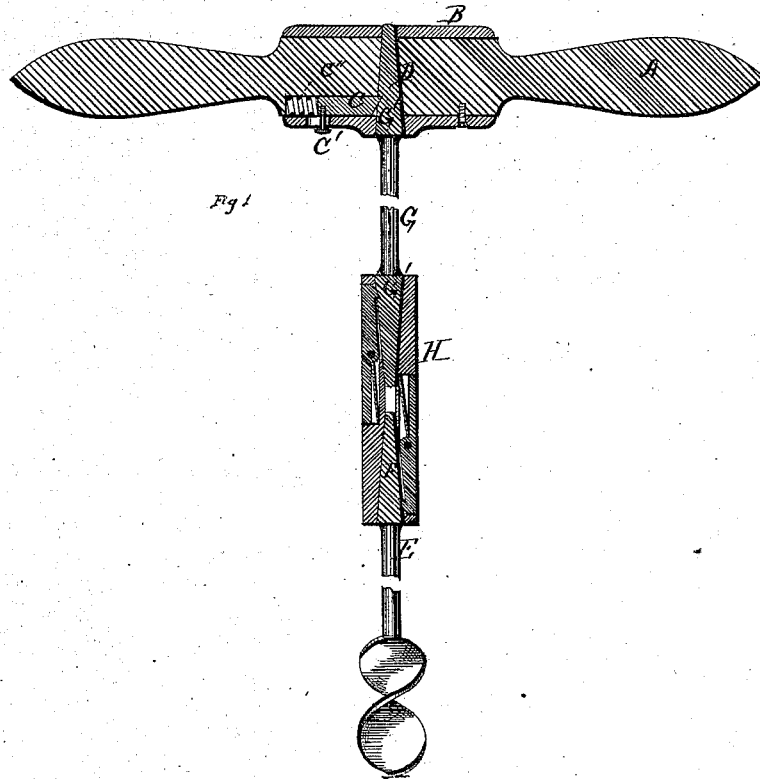


Fig 1

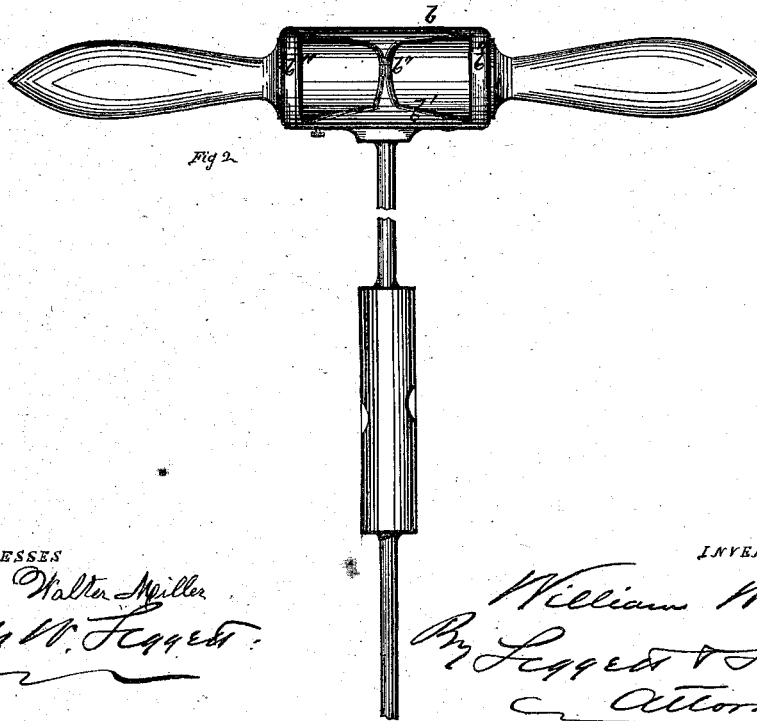


Fig 2

WITNESSES

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# UNITED STATES PATENT OFFICE

WILLIAM WELLS, OF CLEVELAND, OHIO, ASSIGNOR OF ONE-HALF HIS RIGHT  
TO G. B. JOHNSON, OF SAME PLACE.

## IMPROVEMENT IN AUGERS.

Specification forming part of Letters Patent No. 162,874, dated May 4, 1875; application filed  
February 24, 1875.

*To all whom it may concern:*

Be it known that I, WILLIAM WELLS, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Augers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings which form part of this specification.

My invention relates to improvements in augers, whereby the shafts of the said augers may be extended to any desired length; and consists in providing auxiliary shanks that have tangs upon each of their ends, and a double socket or coupling, whereby the shank of the auger may be lengthened by inserting the tang of its shank into one end of the double socket or coupling, and inserting into the other end one of the tangs of the extra shank.

In the drawings, Figure 1 is a longitudinal central section of my improved auger. Fig. 2 is a side elevation of my improved handle or brace.

A is a handle or brace. B is a light open frame-work, consisting of an upper longitudinal bar, *b*, a lower longitudinal bar, *b'*, and three ring-shaped portions, *b''*, the whole forming a socket for the reception of the handle, which socket is slightly tapering toward one end, whereby the handle may be closely wedged in. C is a latch; C', a lug or screw for operating the latch, and C'' a spiral spring for pressing the latch into the notch of the tang. D is the throat for receiving the tang. E is

the auger-shank; F its tang. G is the extra shank, provided with similar tangs G' at its two ends. H is a double socket or coupling for receiving the tang of the auger-shank and one of the tangs of the extra shank G.

The object in making the extra shank G with a tang at each end is obvious: first, it is of very simple and cheap construction, and, therefore, will admit of making a number of these extra shanks without the necessity of forming upon the said shanks couplings or sockets for receiving the tang of the auger.

The operation of the device is obvious from the drawings. When the operator desires to lengthen his auger he removes the bit from the brace and inserts the tang of the auger into one end of the double socket or coupling; he inserts the tang at one end of the extra shank into the other end; he then connects the free end of the extra shank with the brace in the usual manner.

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

As a means of extending the length of an auger-shank the combination with the brace and the bit of an intermediate double socket or coupling and the extra shank G, provided with a tang at each of its ends, substantially as and for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM WELLS.

Witnesses:  
FRANCIS TOUMBEY,  
THOMAS B. HALL.