

M. F. Connett,

Cutter Head.

N^o 68,048.

Patented Aug. 27, 1867.

Fig: 1

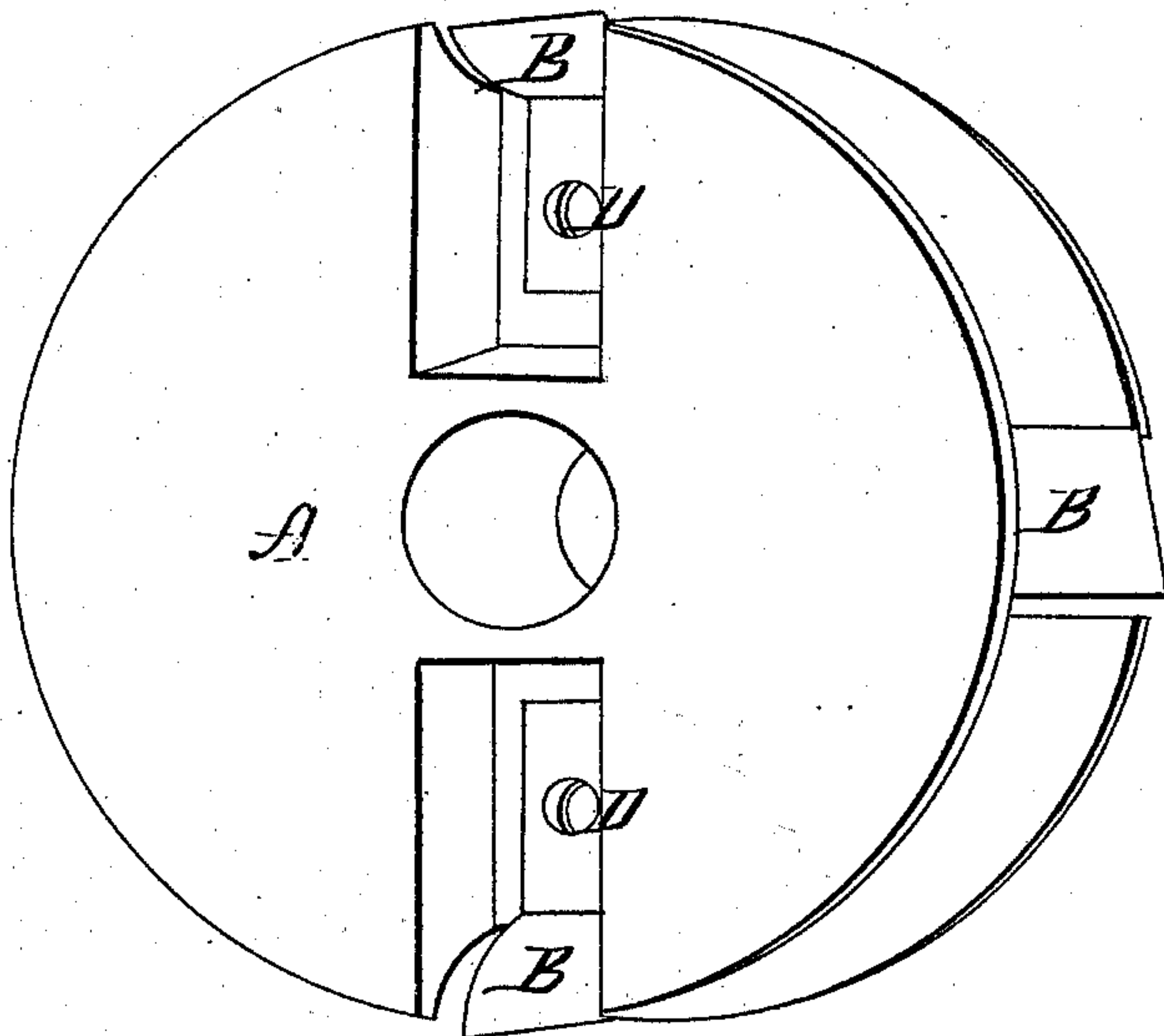
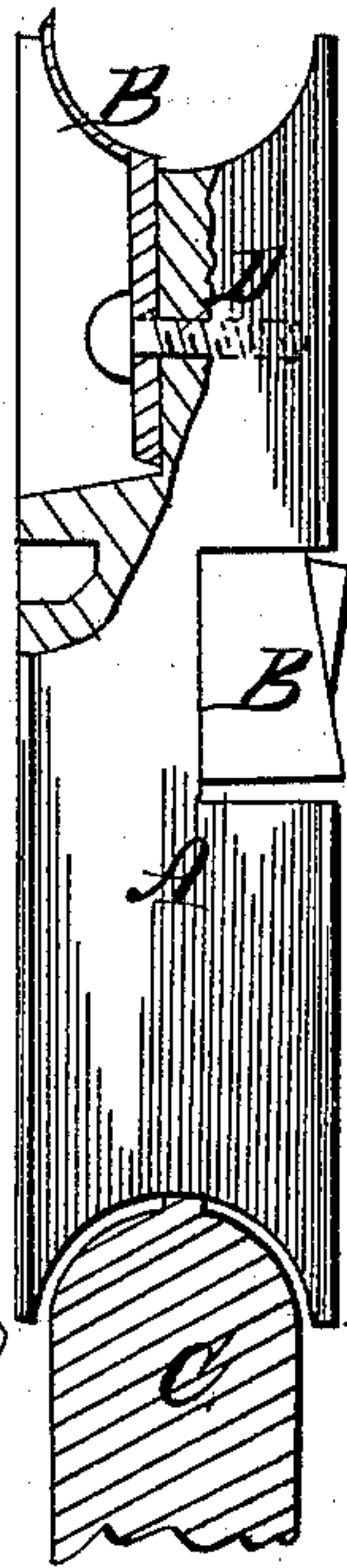


Fig: 2



Witnesses;

Chas D. Smith
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Inventor:

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United States Patent Office

MATTHEW F. CONNETT, OF LADOGA, INDIANA.

Letters Patent No. 68,048, dated August 27, 1867

IMPROVEMENT IN CUTTER-HEADS FOR PLANING MACHINES.

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, MATTHEW F. CONNETT, of Ladoga, in the county of Montgomery, and State of Indiana, have invented a new and useful Improvement in Cutter-Heads for Turning Plough-Handles; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation of the same, reference being had to the accompanying drawings, which are made part of this specification, and in which—

Figure 1 is a perspective view of a cutter-head illustrating my invention.

Figure 2 is an end elevation of the same, a portion being represented as broken away to show the manner of attaching the cutters.

The object of this invention is to provide a cutter-head of such construction as that it shall perform the functions of a guide and gauge as well as turn the stuff; that is to say, the device is designed to perform the office of a pattern and guide, and render the employment of special devices unnecessary.

To this end the invention consists in so applying the cutters to the revolving head as to leave a central space between the knives, which are placed on the opposite sides of the head, and act on the wood in such a way as to leave a small central ridge thereon, which escapes the action of the cutters, and constitutes a gauge to prevent them from going deeper into the wood than desired. The knives are also so fixed that they do not cut outward to the extreme rims or sides of the head, which are thus made to act as an efficient guide.

To enable others skilled in the art to which my invention appertains to fully understand and use the same, I will proceed to describe its construction and operation in detail in connection with the accompanying drawings.

A represents the head, to which the cutters B B are applied. The head represented has four cutters or knives, but the number may be varied at the option of the user. A rapid rotary movement is imparted to the cutter-head in any suitable manner. The cutters are applied to the opposite sides of the cutter-head in the manner represented, that is to say, the cutters are so placed that they extend and cut almost, but not quite, to the centre of the periphery of the head, thus leaving a slight intermediate central space where the cutters, during their revolution, cannot act upon the wood. The effect is obvious. That portion of the plough-handle C which is subjected to the action of the cutters is turned or finished, but a ridge, *e*, is made at the portion of the wood which occupies the space between the opposite cutters, and this ridge coming in contact with the periphery of the cutter-head, serves as a gauge, which limits the penetration of the cutters into the irregular surface of the handle. This device will also be available in the finishing of wheel-felloes. The cutting edges of the knives do not extend to the edges of the head, and the latter thus form guides, which insure an even, regular movement of the stuff on the cutter-head. The respective cutters may be secured in place by screws D, and can be readily replaced.

The operation of the cutter-head is as follows: First, the cutter-head is put in motion so as to rotate from you. The piece to be turned is then taken in the hand and laid in the groove in the periphery of the cutter-head. You then draw the entire piece towards you through the groove, and then turn it over if necessary.

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

I claim a cutter-head for turning plough handles, when constructed with the knives B B, which are so arranged as to leave a central space to limit the penetration of the cutters and guides at the edges of the cutter-head, as and for the purpose specified.

MATTHEW F. CONNETT.

Witnesses:

B. F. STOVER,

ELLIOTT PEARSON.