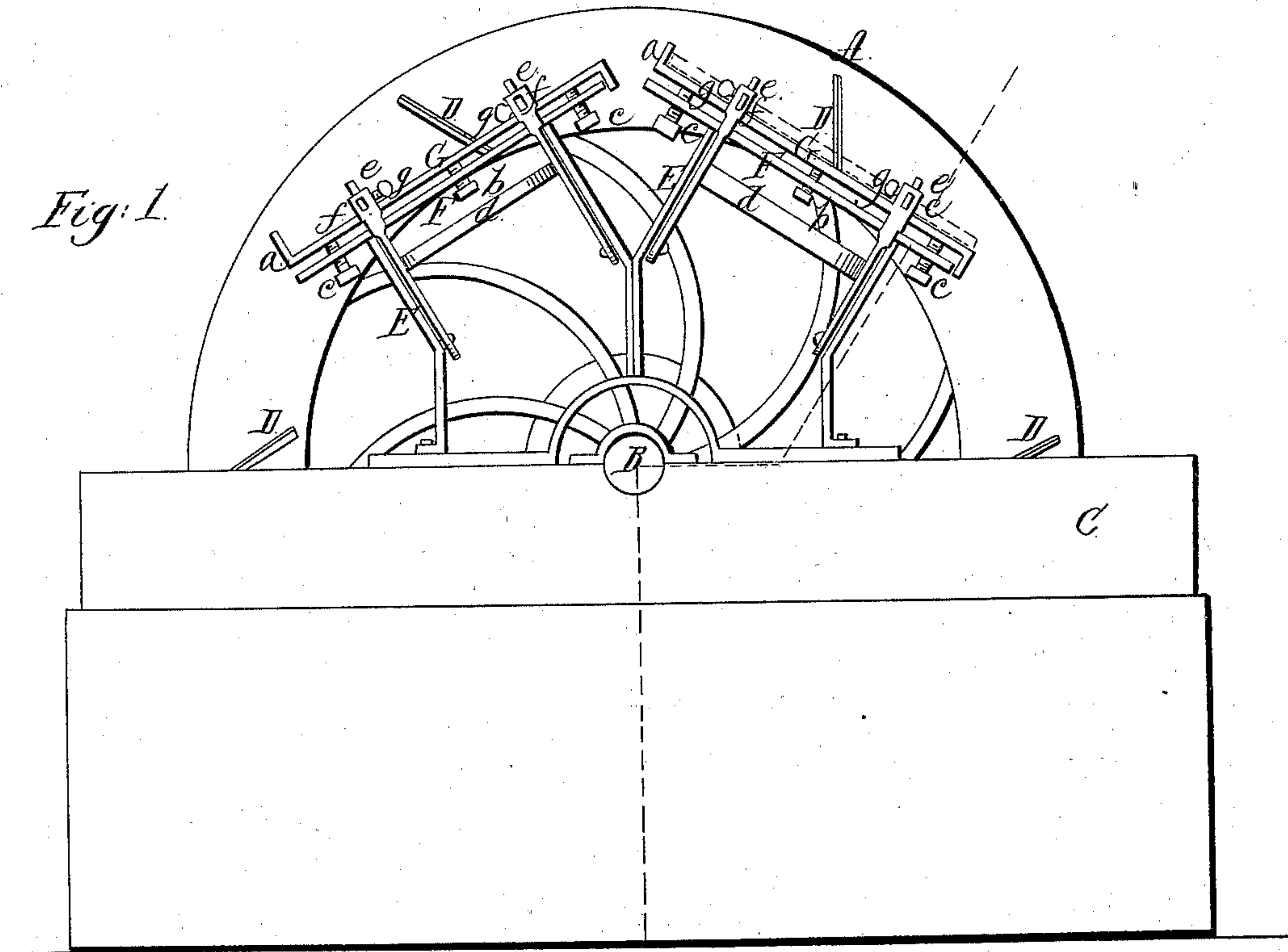


*A. H. Crozier,*  
*Jointing Staves.*

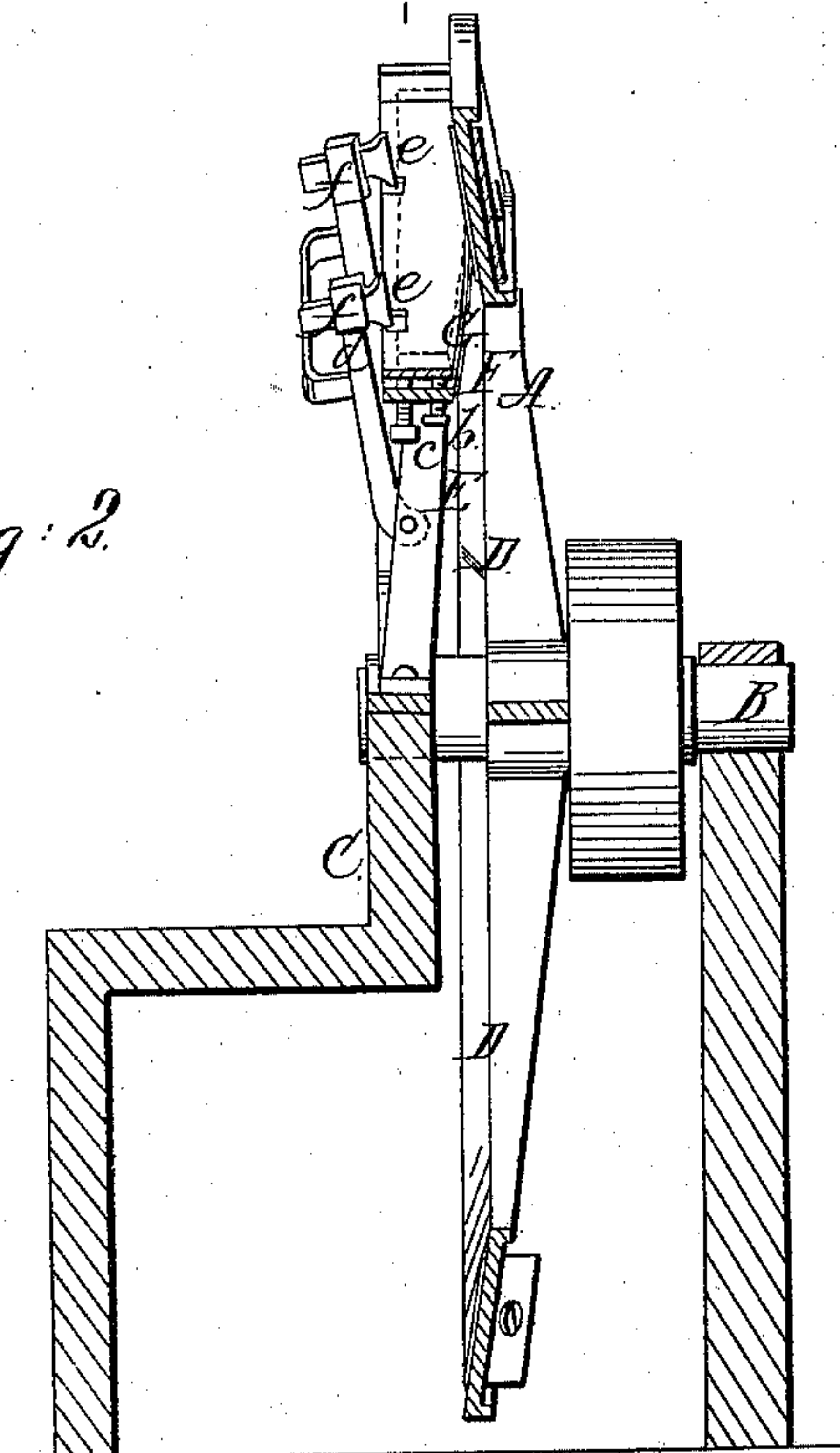
*N<sup>o</sup> 15,757.*

*Patented Sep. 23, 1856.*

*Fig: 1.*



*Fig: 2.*





# UNITED STATES PATENT OFFICE.

A. H. CROZIER, OF OSWEGO, NEW YORK.

## STAVE-JOINTER.

Specification of Letters Patent No. 15,757, dated September 23, 1856.

*To all whom it may concern:*

Be it known that I, A. H. CROZIER, of Oswego, in the county of Oswego and State of New York, have invented a new and Improved Stave-Jointing Machine; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side view of my improvement. Fig. 2 is a transverse section of ditto, *x, x*, Fig. 1, showing the plane of section.

Similar letters of reference indicate corresponding parts in the two figures.

My invention consists in the employment or use of a wheel having cutters attached and used in connection with adjustable gages arranged as will be hereinafter fully shown and described.

To enable others skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, represents a vertical wheel, the axis B, of which is fitted transversely on a suitable framing C. The rim of the wheel A, has a series of knives D, placed in it, said knives being placed in the side of the rim.

E, E, represent two supports or frames having plates F attached to their upper ends, said plates being inclined in opposite directions, as shown clearly in Fig. 1. Each plate F, has a plate G, upon it, the plates G, being attached at their centers to the plates F, by screws *b*, near their outer edges. Set screws *c*, pass through the ends of the plates F, and bear against the ends of the plates

G. Each plate G, has a lip or ledge *a* on one end.

To each support or frame E, a smaller frame *d*, is pivoted said frames having each two dogs attached to them, said dogs being fitted in sockets *f*, on the upper parts of the frames and secured therein by set screws *g*.

The rim of the wheel A, in which the cutters are fitted, is of disk shape or form, as shown clearly in Fig. 2.

The staves H, to be jointed, shown in red, are placed upon the plates G, G, and are kept against the rim of the wheel A, by pressing or pushing the frames *d*, *d*, and as the rim of the wheel is of disk form the staves will be jointed with more or less lead or taper, according as the plates G, are adjusted higher or lower, which adjustment is obtained, by operating the set screws, *c*, *c*, *b*.

The above machine is extremely simple and operates well. It may be cheaply constructed and there are no parts liable to get out of repair.

I do not claim the wheel A, for that has been previously used, but

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

The wheel A, with cutters D, attached, in combination with the adjustable gages or plates G, arranged as shown and described, for the purpose set forth.

A. H. CROZIER.

Witnesses:

PETER WELCH,  
WM. JOYCE.