

M. Colton,

Spoke Share.

N^o 32,617.

Patented June 25, 1861.

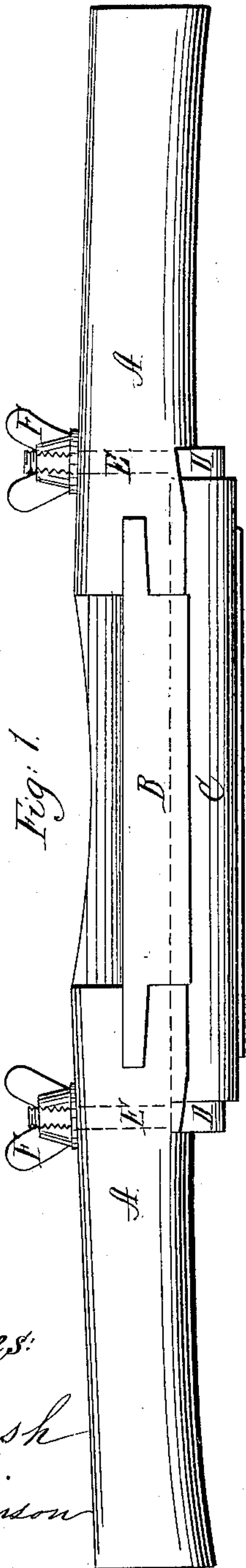


Fig. 1

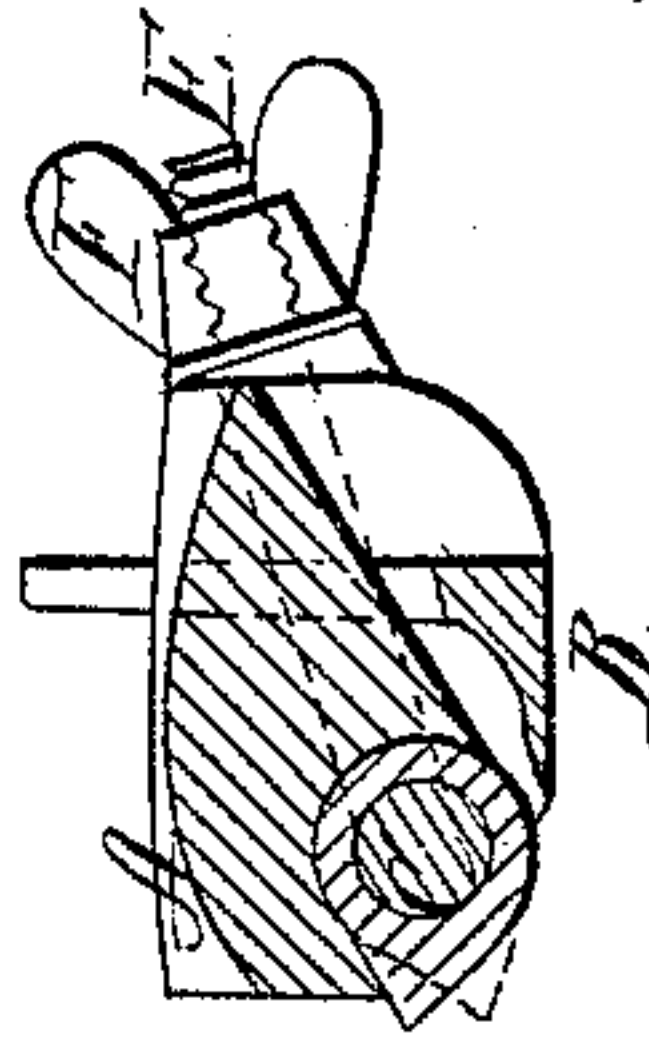


Fig. 3.

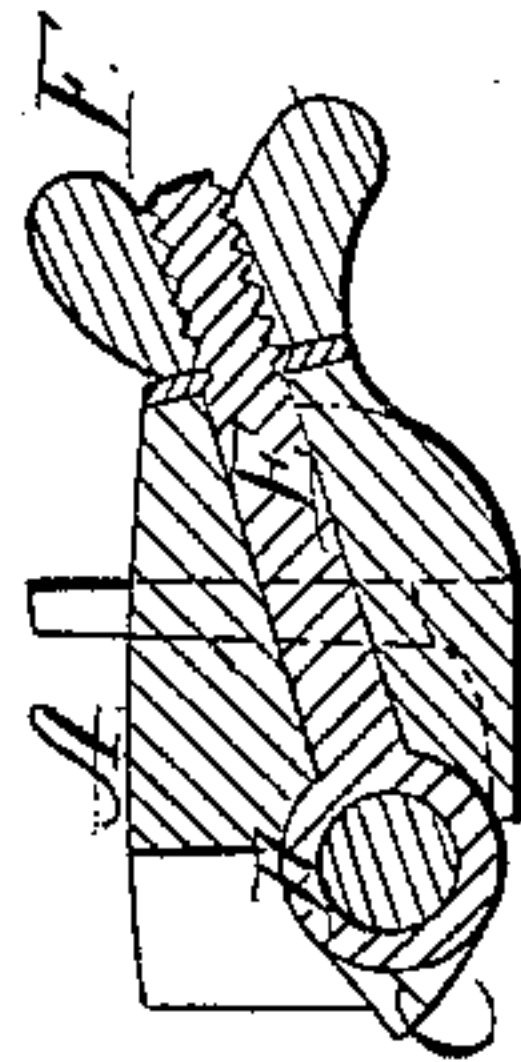


Fig. 2.

Witnesses:

W. H. C. Forbush

L. M. Johnson

Inventor:

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att'y

UNITED STATES PATENT OFFICE.

MARTIN COLTON, OF SARDINIA, NEW YORK.

SPOKESHAVE.

Specification of Letters Patent No. 32,617, dated June 25, 1861.

To all whom it may concern:

Be it known that I, MARTIN COLTON, of Sardinia, county of Erie, and State of New York, have invented certain new and useful Improvements in Spokeshaves; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon, in which—

Figure I is a bottom plan of my improvement. Fig. II is a cross section on line *c—d* and Fig. III is a cross section on line *a—b*.

Letters of like name and kind refer to like parts in each of the figures.

The nature of my invention relates to the connection of an adjustable cam face to the stock of the shave in such relative arrangement to the cutting knife that by its adjustment the knife will cut in any required curve.

A, represents the stock of the shave of ordinary construction. B, represents the cutting knife connected to the stock in the common manner.

C, represents the adjustable cam face in length a little longer than the cutting edge of the knife—say one inch at each end—and fitting into a concave recess or chamber made in the stock to receive it. The form of the face on the side nearest the knife and commencing at the edge of the knife and extending about two thirds of the entire circumference of the face—is cylindrical. That part of the cam face which

bears upon the work has an expanding curvature commencing at the edge of the knife and tangent to the cylindrical part. A journal is formed at each end of the cam face upon the center line of the cylindrical part. These journals turn in eyes (D) which have long shanks (E) passing through the stock and having tightening nuts (F) upon their ends. By turning these nuts the cylindrical part of the cam face may be drawn into the recess in the stock and held tightly in any desired position.

In consequence of the expanding curvature of the cam face by loosening the nuts F and turning it upon its journals the distance of the line of bearing upon the work from the cutting edge of the knife may be increased or diminished—increasing it will adapt it to smoothing or cutting surfaces of greater curvature and diminishing it will adapt it to surfaces of less curvature. I am thus able to adapt the shave as required by the peculiarities of the work being done and am enabled to do the work in the most perfect manner.

I claim—

The combination of the adjustable cam face C with the stock A and knife B arranged and operating for the purposes and substantially as set forth.

MARTIN COLTON.

Witnesses:

R. SIMON,
SARDIS HOBART.