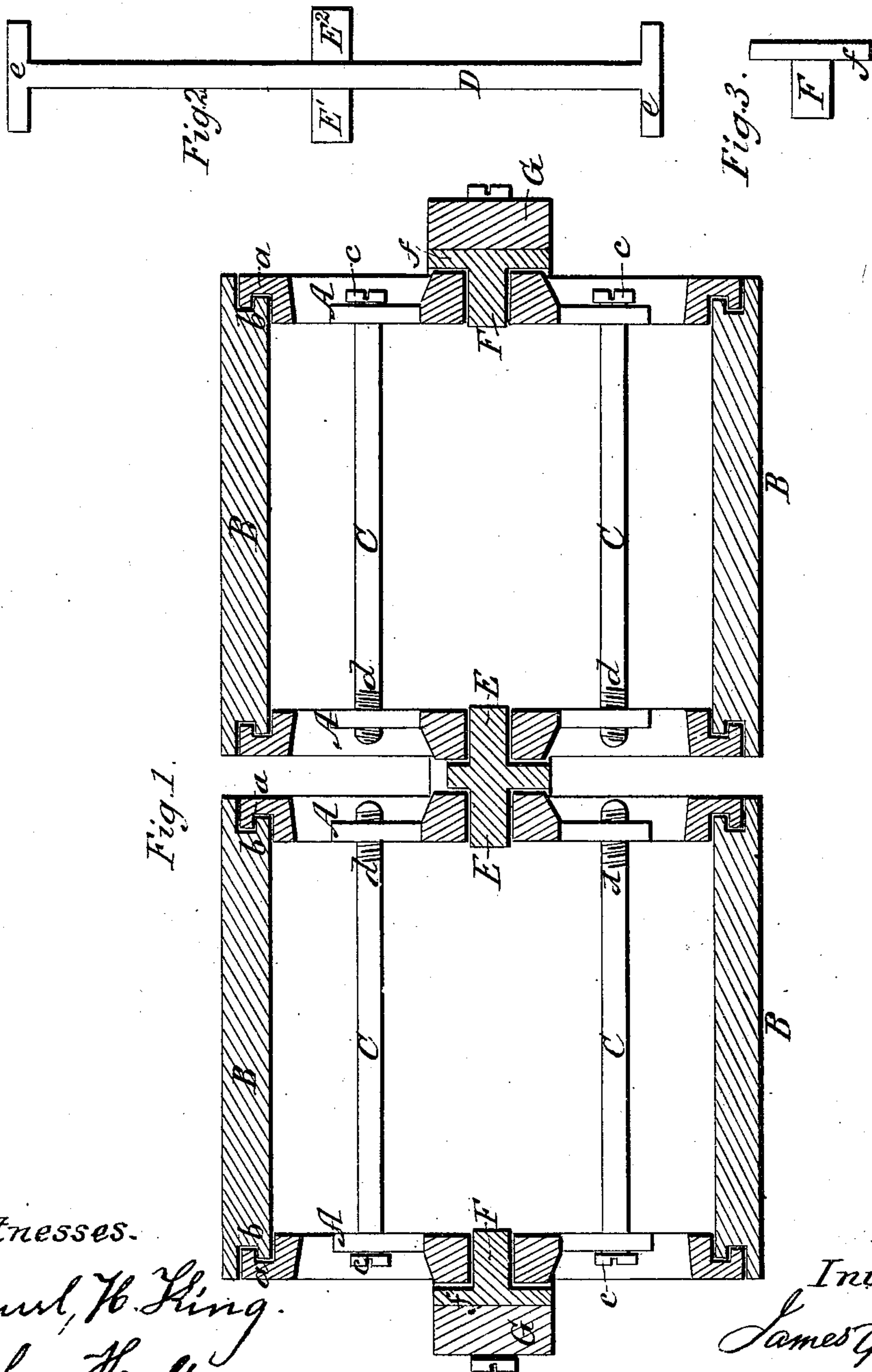


GILES & TOMPKINS.

Land-Roller.

No. 26,100.

Patented Nov. 15, 1859.



Witnesses.

Samuel H. King.  
John Herold.

Inventors.

James Giles.  
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# UNITED STATES PATENT OFFICE.

JAMES GILES, OF DRYDEN, AND C. B. TOMPKINS, OF ULYSSES, NEW YORK.

## IMPROVEMENT IN CYLINDERS FOR SMOOTHING WALKS, &c.

Specification forming part of Letters Patent No. 26,100, dated November 15, 1859.

*To all whom it may concern:*

Be it known that we, JAMES GILES, of the town of Dryden, and C. B. TOMPKINS, of the town of Ulysses, county of Tompkins, in the State of New York, have invented new and useful Improvements in Cylinders for Rollers and other purposes; and the following is a clear and exact description of the same, reference being had to the accompanying drawings and the letters of reference marked thereon.

The nature of our invention consists in making cylinders for rollers with metal flanges, into which staves of wood, which form the rolling-surface, are fitted at both ends, so as not to require bolts or screws to hold them on; also, the mode of making and applying cross-bars and journals between cylinders when two or more are required for rolling surfaces.

To enable others skilled in the art to make and use our invention, we will describe it, referring to the drawings and the letters thereon.

Figure 1 represents a section through the center of two cylinders. Fig. 2 shows a top plan of the cross-bar and double journal. Fig. 3 is a view of the outer end journals.

The flanges A A A A, as seen in Fig. 1, are cut through the center of the cylinders to show clearly the grooves *a a a a* in the rim, and also the edge of the staves B B B B, the shape of the tenons *b b b b* fitted into the flanges. The outer surface of the staves covers the entire periphery of the flanges, and may project over, if desired. The two flanges are brought to bear firmly upon the tenons of the staves *b* by four rods of iron, C C C C, having a small head, *c*, on one end, and a screw, *d*, at the

other, the arms of the flange A being tapped, which serves the purpose of a nut. The hole in the center of each flange is all the journal-box required for the rollers to run on.

The cross-bar D, as seen in Fig. 2, is made of metal, thin and wide, with pieces *e* at each end at right angles, to bolt it firmly to the frame, which it greatly strengthens, while it admits of the rollers coming close to each other, and the stationary journals E E being made with it allows a much longer bearing to run on than could otherwise be obtained without a shaft or bar running through the center.

Fig. 3 shows the end journals, F, made on a plate, *f*, to secure it to the frame G, of which only small sections are seen in the drawings.

We are confident that our mode of making cylinders for rollers and other purposes is a more substantial, durable, and economical way than has before been known or used.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. Making cylinders for rollers and other purposes with grooved metal flanges, into which wood staves are fitted, which form the rolling-surface, substantially as described, and for purposes specified.

2. The mode of making and applying cross-bars between rollers when two or more cylinders are required for smoothing surfaces, as described.

JAMES GILES.  
C. B. TOMPKINS.

Witnesses:

SAMUEL H. KING,  
JOHN HERALD.