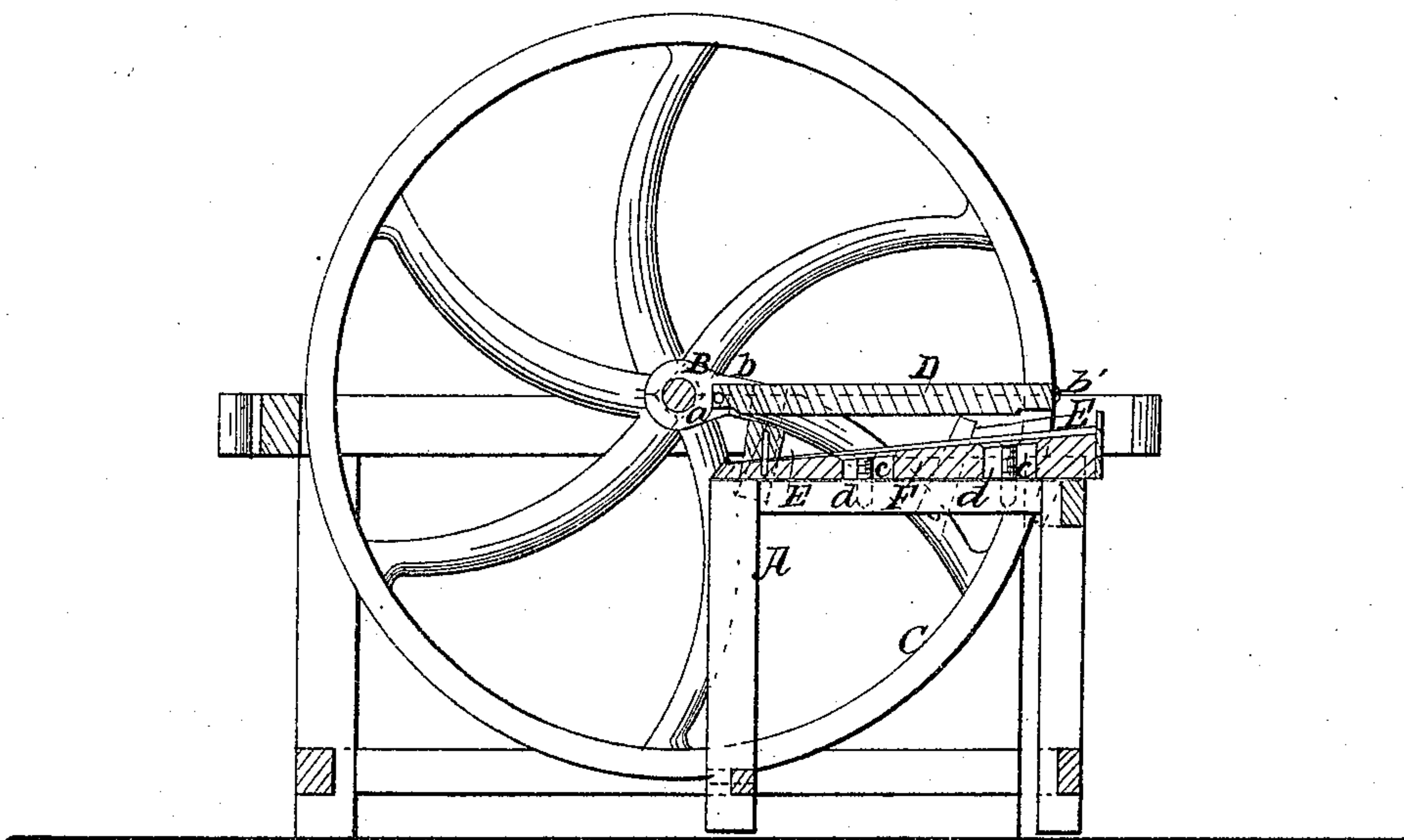
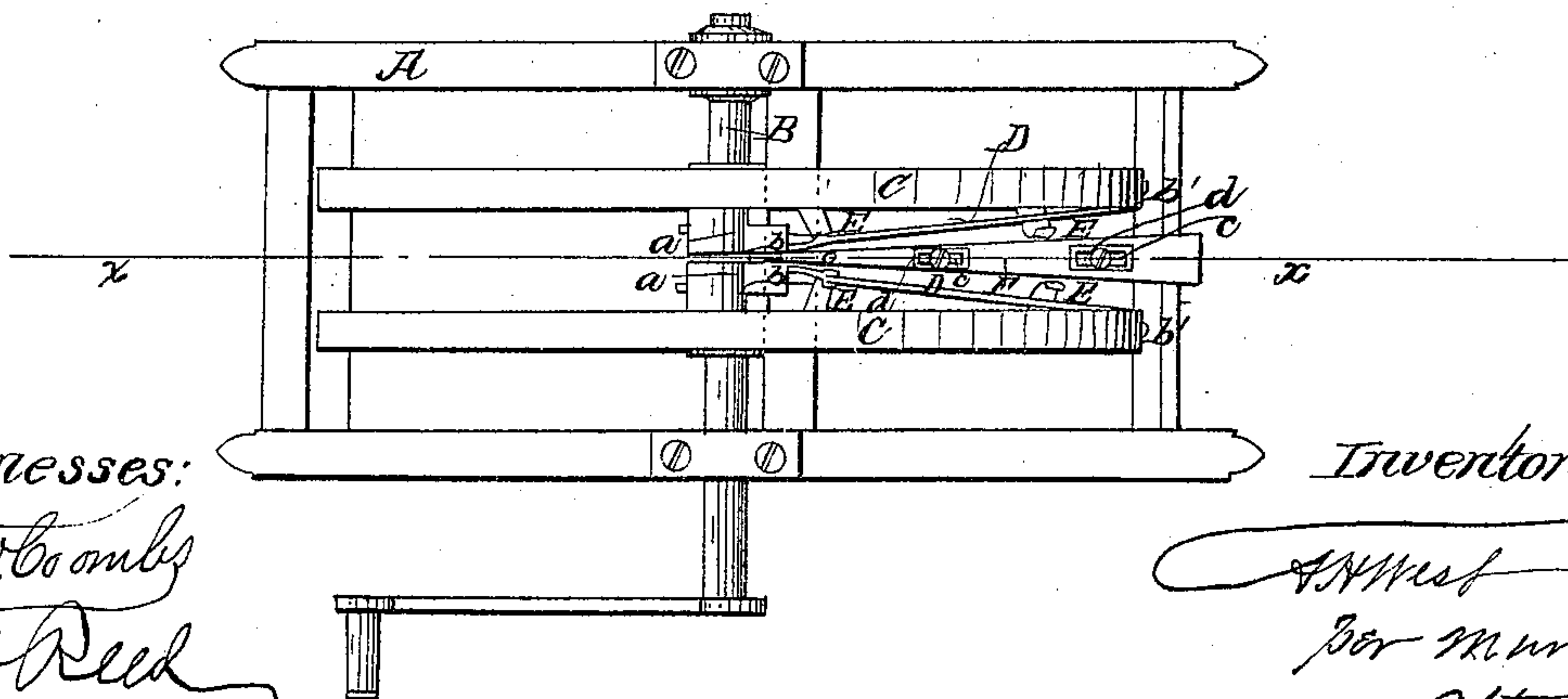


*A. H. West,*  
*Making Fence Pickets, &c.*  
*No 43,614.* *Patented Aug. 19, 1864.*

*Fig. 1*



*Fig. 2*



*Witnesses:*

*J. W. Coombs*  
*A. W. Reed*

*Inventor:*

*A. H. West*  
*per Munn & Co*  
*Attys*

# UNITED STATES PATENT OFFICE.

ALONZO H. WEST, OF HAMILTON, NEW YORK.

## IMPROVEMENT IN MACHINES FOR SHARPENING HOP-POLES.

Specification forming part of Letters Patent No. 43,614, dated July 19, 1864.

*To all whom it may concern:*

Be it known that I, A. H. WEST, of Hamilton, in the county of Madison and State of New York, have invented a new and useful machine for sharpening hop-poles, stakes, &c., preparatory to driving them into the earth; and I do hereby declare that the following is a full, clear, and exact description of the same, which will enable any person skilled in the art to make and use the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *xx*, Fig. 2; Fig. 2, a plan or top view of the same.

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

This invention relates to a new and improved machine for sharpening hop-poles, stakes, and such articles, in order to enable them to be driven into the earth with facility.

The invention consists in the employment or use of two wheels placed on a shaft and provided with knives and gages, the shaft of the wheels being fitted on a suitable frame, in which an adjustable rest is placed, and all arranged as hereinafter set forth, to enable the desired work to be done with facility.

A represents a framing, on which a shaft, B, is placed horizontally; and C C are two wheels which are firmly keyed on the shaft B, and have each a knife, D, secured radially to their inner sides. These knives are not in the same planes with the wheels C, but have an oblique position relatively with the latter, the inner ends of the knives being secured to the hubs *a* of the wheels, as shown at *b*, and the outer ends secured to the peripheries of the wheels by set-screws *b'*, which pass through slots in the knives to admit of the latter being adjust-

ed nearer to or from each other, as may be desired.

To the inner side of each wheel C there are attached two springs, E E, which serve as gages, said springs being curved and extending toward the cutting edge of each knife D.

F represents a rest, which is secured by set-screws *c c* to the framing A, the screws *c* passing through oblong slots *d* in the rest. This rest is between the two wheels C C, and the pole or stake to be sharpened is placed on the rest F, and the wheels C C rotated by any convenient power applied to the shaft B. The two knives D D cut or chamfer off the sides of the pole or stake with an oblique cut, so as to sharpen it, and it may be cut to a point, if desired, by adjusting the rest F sufficiently far inward. The obliquity of the cuts of the knives may be varied as desired by adjusting the outer ends of the knives nearer to or farther outward from each other, as previously described. The springs E E equalize the cuts or center the pole or stake, so that it will be cut evenly or a chip of equal dimensions taken from each side.

This simple machine will perform its work in a rapid and perfect manner. It may be constructed at a small cost.

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

The combination of the oblique knives D D and spring-gages E E with the wheels C C, all arranged and operating substantially as set forth.

ALONZO W. WEST.

Witnesses:

JOSEPH MASON,  
JOSEPH A. MOTT.