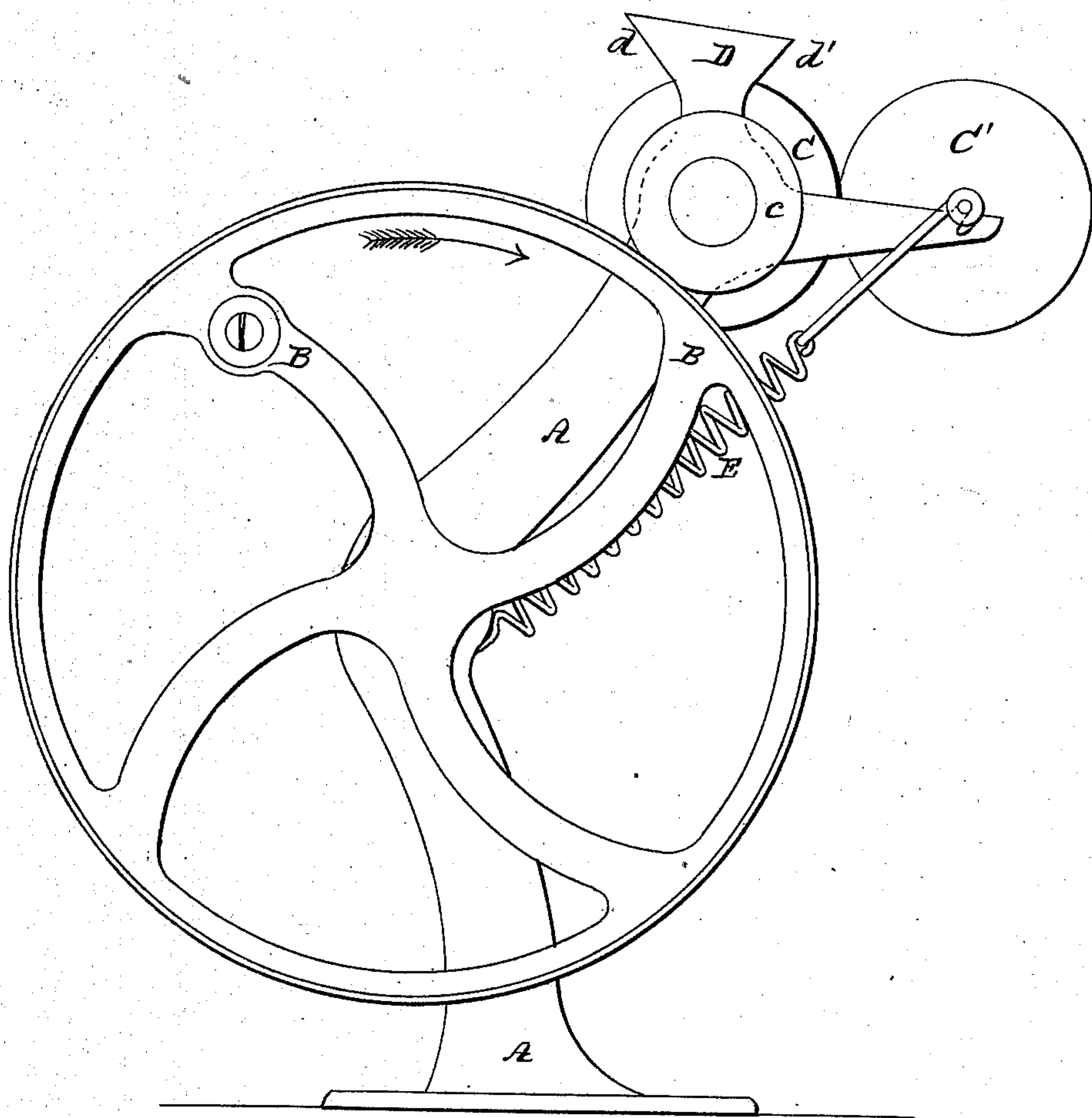


I. S. & J. W. Hyatt, Jr,

Edge-Tool Grinder.

N^o 35,652.

Patented June 17, 1862.



Witnesses.

*H. S. Calhoun
H. L. Chapin*

Inventors,

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UNITED STATES PATENT OFFICE.

ISAIAH S. HYATT AND JOHN W. HYATT, JR., OF CHICAGO, ILLINOIS, ASSIGNORS TO I. S. HYATT AND OLIVER BASCOM, OF WHITEHALL, NEW YORK.

IMPROVEMENT IN KNIFE OR SCISSORS SHARPENERS.

Specification forming part of Letters Patent No. 35,652, dated June 17, 1862.

To all whom it may concern:

Be it known that we, ISAIAH S. HYATT and JOHN W. HYATT, Jr., of Chicago, in the county of Cook and State of Illinois, have invented an Improved Knife or Scissors Sharpener; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, which is a side elevation of the machine complete.

Our present invention is an improvement upon the knife-sharpener for which Letters Patent of the United States were issued to us, dated February 19, 1861, and relates to the adaptation of the same to the sharpening of shears.

The nature of our invention consists in the use of a stationary rest for guiding and sustaining the blades of shears or scissors at the proper angle, in connection with a grinding-wheel for sharpening the same, the said rest being formed double, so as to enable both common shears and sheep-shears, which are ground at opposite angles, to be sharpened on the same machine.

The nature of our invention also consists in the combination of a scissors-rest, either single or double, with twin grinding-wheels, kept together by a spring or equivalent means, and so arranged as to admit of the sharpening of both knives and scissors by the same machine.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation by the aid of the drawing and the letters of reference marked thereon.

A is a frame of cast iron or other suitable material, and B a friction wheel, pulley, or gear having a bearing therein.

C is a grinding-wheel, made of any proper substance, and fitted in bearings in the frame A. A friction wheel, pulley, or gear, *c*, on the shaft of C communicates motion thereto from the wheel B.

C' is a grinding-wheel similar to C, and held in close contact therewith by means of the

spring E, so that C' is driven by friction from C.

All these parts are the same as shown in our patent of February 19, 1861, before referred to, and are used for the same purpose—viz., sharpening knives by placing the edge between the wheels C and C' and revolving B in the direction of the arrow.

Upon the frame A we affix a rest, D, by casting or otherwise, which rest makes such an angle with the surface of C that when a shear-blade is placed against D the surface of C will grind the edge at the proper bevel.

Sheep-shears are ground at the opposite angle from common tailor's shears, and cannot therefore be ground by means of the same instrument. We therefore make the rest D double, as represented, the one side, *d*, serving as a rest for common shears or scissors, and the other, *d'*, for sheep-shears. By this arrangement of a double rest the value of the machine is much increased. The rest D is so arranged relatively to the rolls C and C' that it in no way interferes with their action when grinding a knife, and it is always ready when it is desired for grinding shears.

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

1. The combination and arrangement of the double rest *d d'* and grinding-wheel C, substantially as and for the purpose herein specified.

2. The combination of the scissors-rest D, either double or single, with the twin grinding-wheels C C', kept in contact by a spring or its equivalent, the whole forming a machine for sharpening both scissors and knives, substantially as herein described.

In testimony whereof we have hereunto set our hands.

ISAIAH S. HYATT.
JOHN W. HYATT, JR.

Witnesses:

F. C. S. CALHOUN,
H. L. CHAPIN.