

(No Model.)

M. SWENSON.
POLISHING WHEEL.

No. 497,063.

Patented May 9, 1893.

Fig. 1.

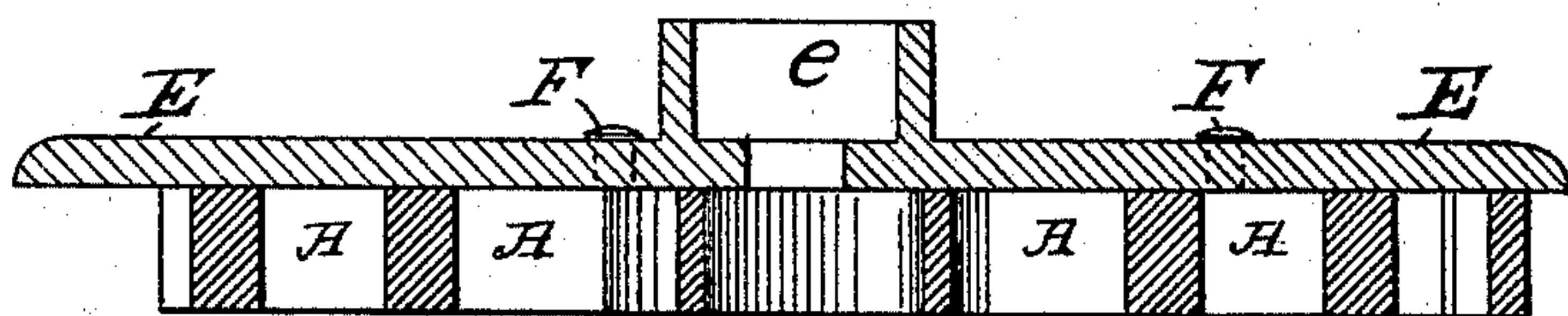
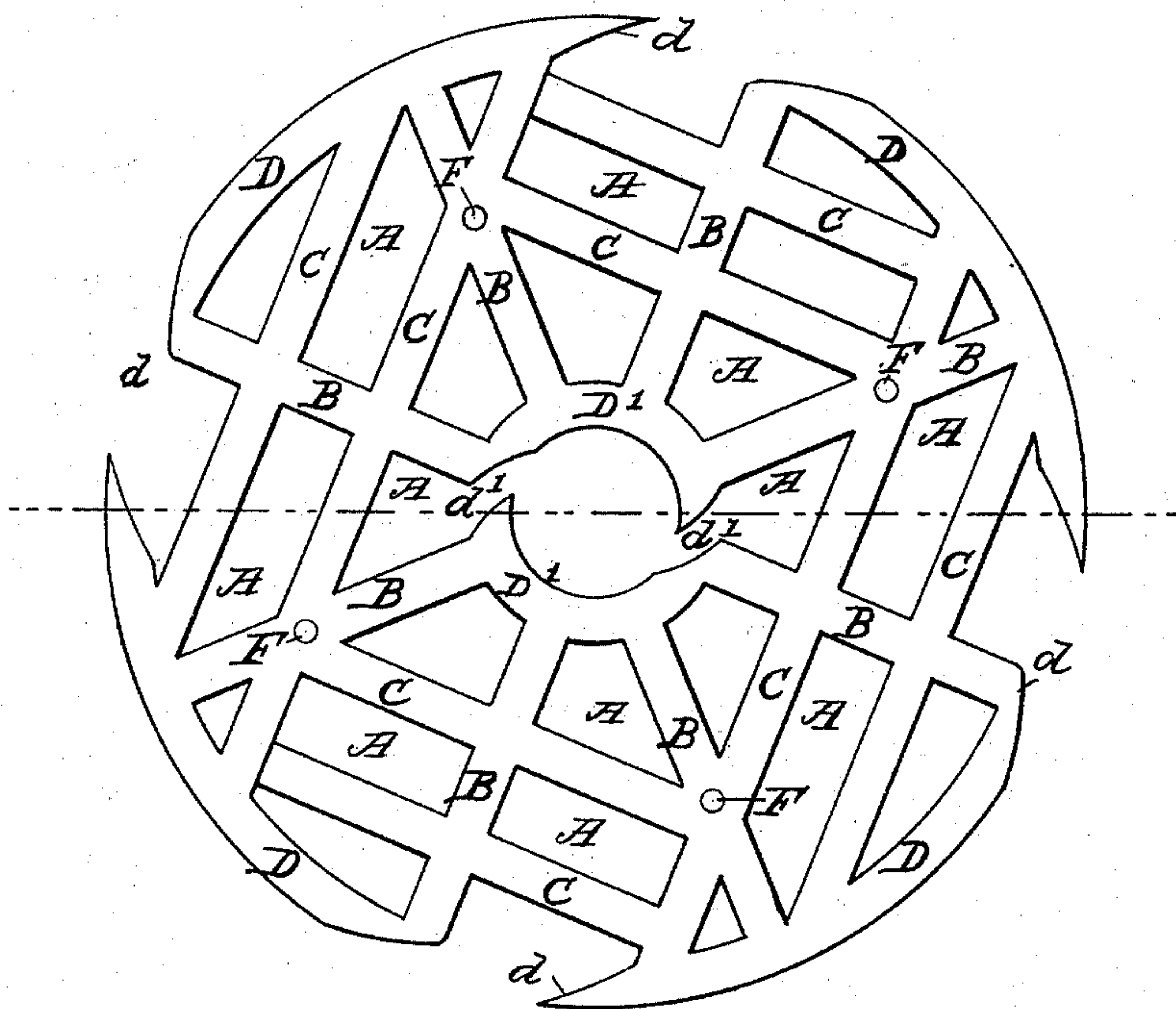


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

MALCOM SWENSON, OF SUNAPEE, NEW HAMPSHIRE.

POLISHING-WHEEL.

SPECIFICATION forming part of Letters Patent No. 497,063, dated May 9, 1893.

Application filed August 24, 1891. Serial No. 403,566. (No model.)

To all whom it may concern:

Be it known that I, MALCOM SWENSON, a citizen of the United States, residing at Sunapee, in the county of Sullivan and State of New Hampshire, have invented certain new and useful Improvements in Polishing-Wheels; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of the present invention is to construct a polishing wheel in such manner as to cause it to draw the ground material used for polishing, from its exterior toward the center.

The invention consists in a wheel comprising a central and exterior circle connected by a webbing formed of radial and angular parts, which will be fully set forth in the following specification and claims and clearly illustrated in the drawings forming a part thereof, of which—

Figure 1. represents one of my improved wheels in cross-section, Fig. 2 being a plan view of the wheel with the cap piece removed.

The wheel is provided with many openings A, of various sizes and forms, some of which are rectangular and some triangular, so formed by reason of the radial portions B, and the parts C, which are placed at right-angles with four of said parts B, and at a forty-five-degree angle with the other four of said parts B. In the exterior circular rim D, curved openings *d*, are made in a course eccentric with the center, and when the wheel is revolved in the direction of the arrow in Fig. 2, the pol-

ishing material has only to be deposited upon the stone, and the wheel by aid of said openings *d*, will draw it in and distribute evenly. The parts B all terminate at the center in a circle D', and this also is provided with openings *d'*, to help the distribution of the polishing material.

The accustomed disk or top plate E, is secured to the wheel by means of pins F, which are secured in said wheel and pass upward through said plate E, and are either bent over or headed as shown, and motion may be transmitted to said wheel by a power driven shaft (not shown) connected in some convenient manner to the said wheel at *e*.

Having described my invention, what I claim is—

A polishing wheel having its circumference divided into a plurality of arcs separated, each from the other, by a recess extending toward the center of the wheel and perpendicular to the circumference thereof, the toe of each arc projecting but partially over its respective recess, and the heel only, having an eccentric slope, a central circular recess having a plurality of eccentric openings extending in a direction opposite to that of rotation of the wheel, and means of communication between the said recesses and openings, and a retaining frame, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

MALCOM SWENSON.

Witnesses:

J. B. THURSTON,
CHAS. G. REMICK.