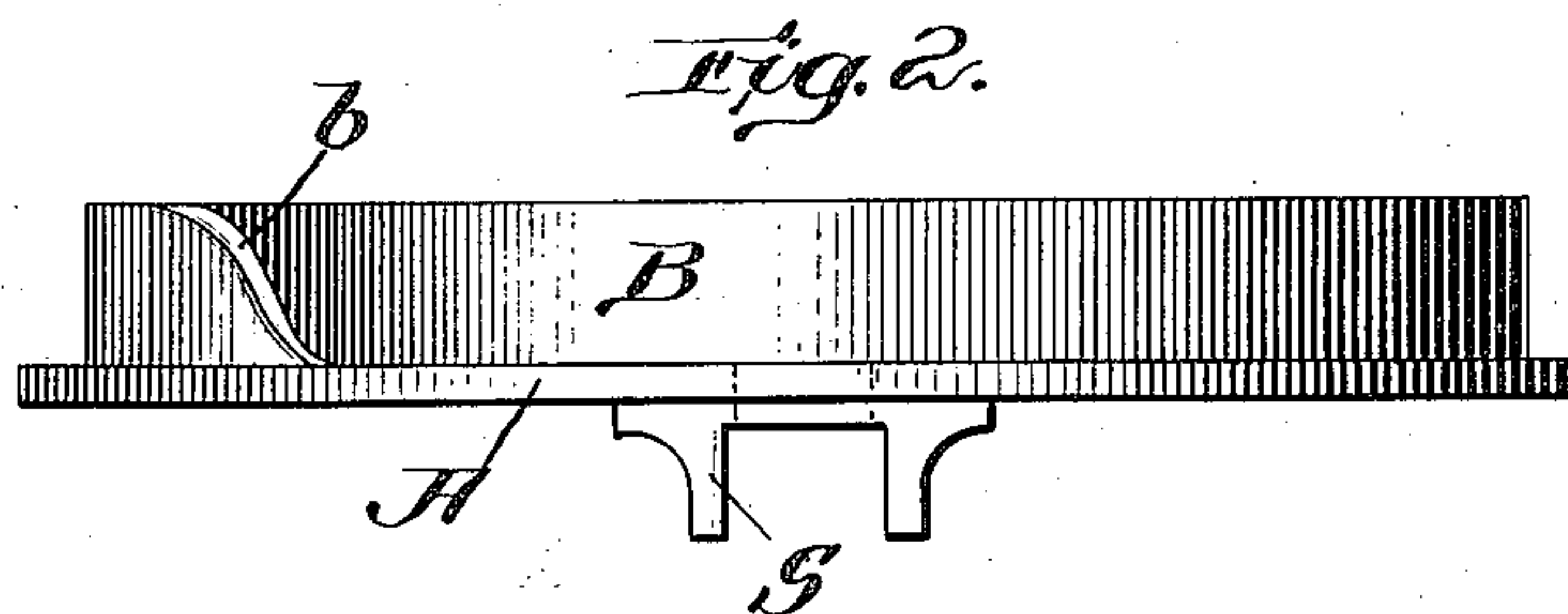
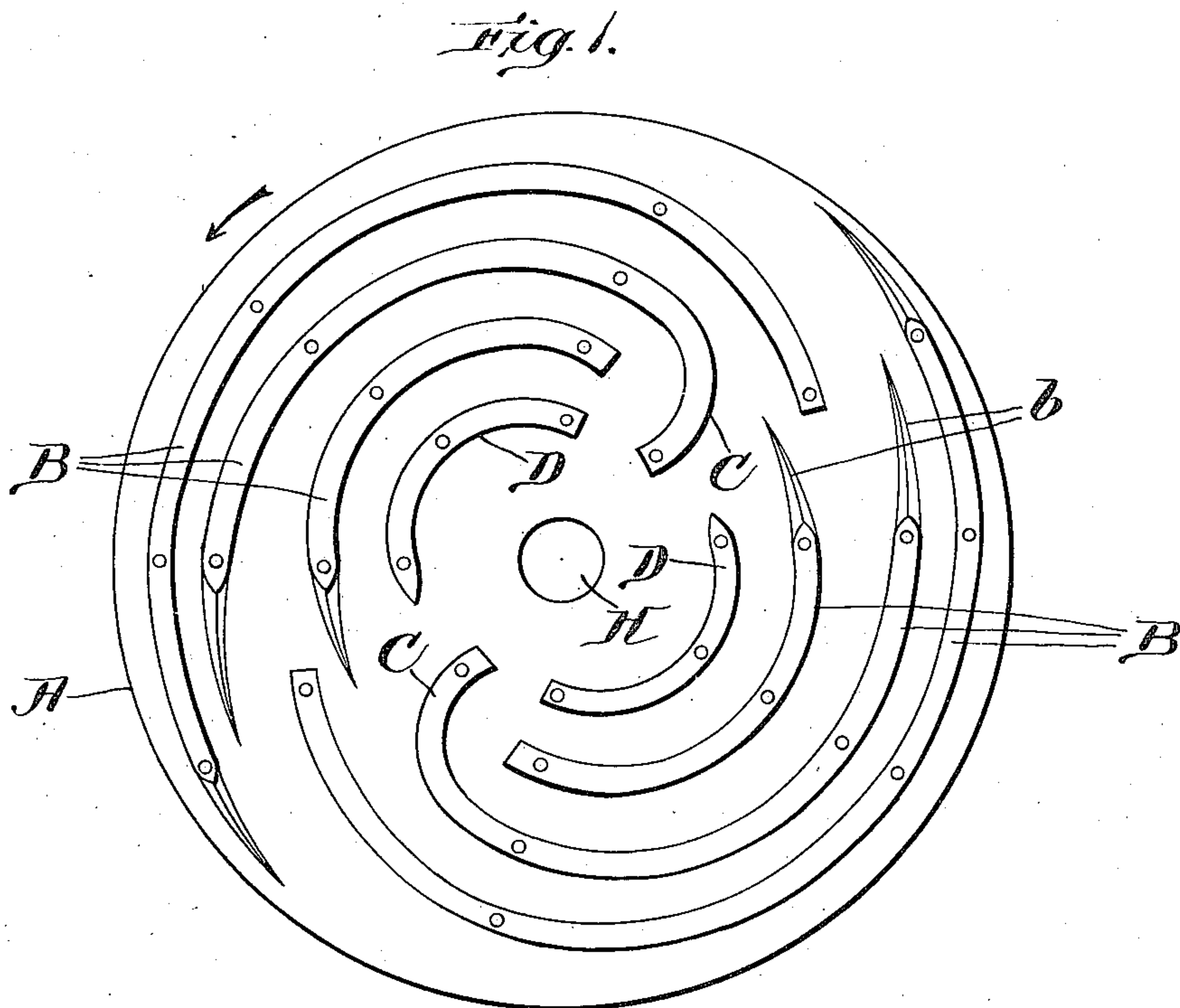


No. 861,476.

PATENTED JULY 30, 1907.

D. F. MCGOVERN.
POLISHING WHEEL.
APPLICATION FILED OCT. 8, 1906.



Witnesses:

Roswell F. Hatch.
J. H. Houston.

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Attorney.

UNITED STATES PATENT OFFICE.

DANIEL FREDERICK McGOVERN, OF MONTPELIER, VERMONT.

POLISHING-WHEEL.

No. 861,476.

Specification of Letters Patent.

Patented July 30, 1907.

Application filed October 8, 1906. Serial No. 337,890.

To all whom it may concern:

Be it known that I, DANIEL FREDERICK McGOVERN, a citizen of the United States, residing at Montpelier, in the county of Washington and State of Vermont, have invented certain new and useful Improvements in Polishing-Wheels, of which the following is a specification.

This invention relates to polishing wheels and particularly to polishing wheels employing scroll shaped flanges to work in the polishing material.

In the use of polishing wheels having such scroll flanges, there is a tendency, as the wheel is revolved, to cake the material at the center of the wheel and between the flanges and thus prevent the proper action of the surfaces with the polishing material.

It is the object of the present invention to provide an arrangement of scroll flanges which will work the material across the face of the polishing wheel and allow the flanges to work through it and keep it separated to prevent its caking. To this end I have devised a combination of flange spirals and curves so arranged as to work the material across the path of succeeding spirals and allow the same to obtain from it a maximum amount of polishing action.

The construction of the device will be more fully described in the specification which follows and are illustrated in the drawings which form a part thereof and in which,

Figure 1, is a bottom view of the polishing wheel, and Fig. 2, a side view of the same.

In these drawings A indicates the frame disk of the wheel, having the socket S to receive the driving shaft.

B are detachable spiral flanges having sharpened runner shaped ends b.

C are inwardly turned sections on two or more of the flanges B. These sections C curve in radially towards

the center of the wheel, so as to bring the material drawn in by the spiral, across the face of the wheel and in line with the flanges which terminate just behind it.

D are a pair of oppositely faced flanges sharpened at their ends d. These flanges terminate just in front of the end of the portion C and tend to prevent the undue accumulation of material at the center of the disk and keep the materials working back on C.

H is an opening through the disk A.

In operation the disk is rotated in the direction of the arrow over the block to be polished. As the wheel is rotated the flanges pick up and work under their surfaces the polishing material and at the same time keep this material moving and shifting so that it will not cake. The flanges at the outer edge of the wheel keep the material divided and work it along a plurality of channels, the flange section C drags it across the path of the inner flanges and the inner flanges D cooperate with the flange section C and keep the material from concentrating at the center of the wheel.

What I therefore claim and desire to secure by Letters Patent, is:—

1. In a polishing wheel, the combination of a plate, a spirally disposed flange having a radially disposed section at its inner end, and a flange within said first named flange and terminating in front of said radially disposed portion.

2. A stone polishing wheel consisting of a plate, a plurality of flanges spirally arranged thereon at different distances from the center thereof, one of the outer flanges having its inner end disposed radially across the path of one of the inner flanges.

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

DANIEL FREDERICK McGOVERN.

Witnesses:

MORIS MCKINSTRY,

HARRY C. SHURTLEFF.