

No. 79,984.

PATENTED JULY 14, 1868.

H. K. JONES.

ATTACHMENT FOR BALANCING POLISHING WHEELS.

Fig. 1

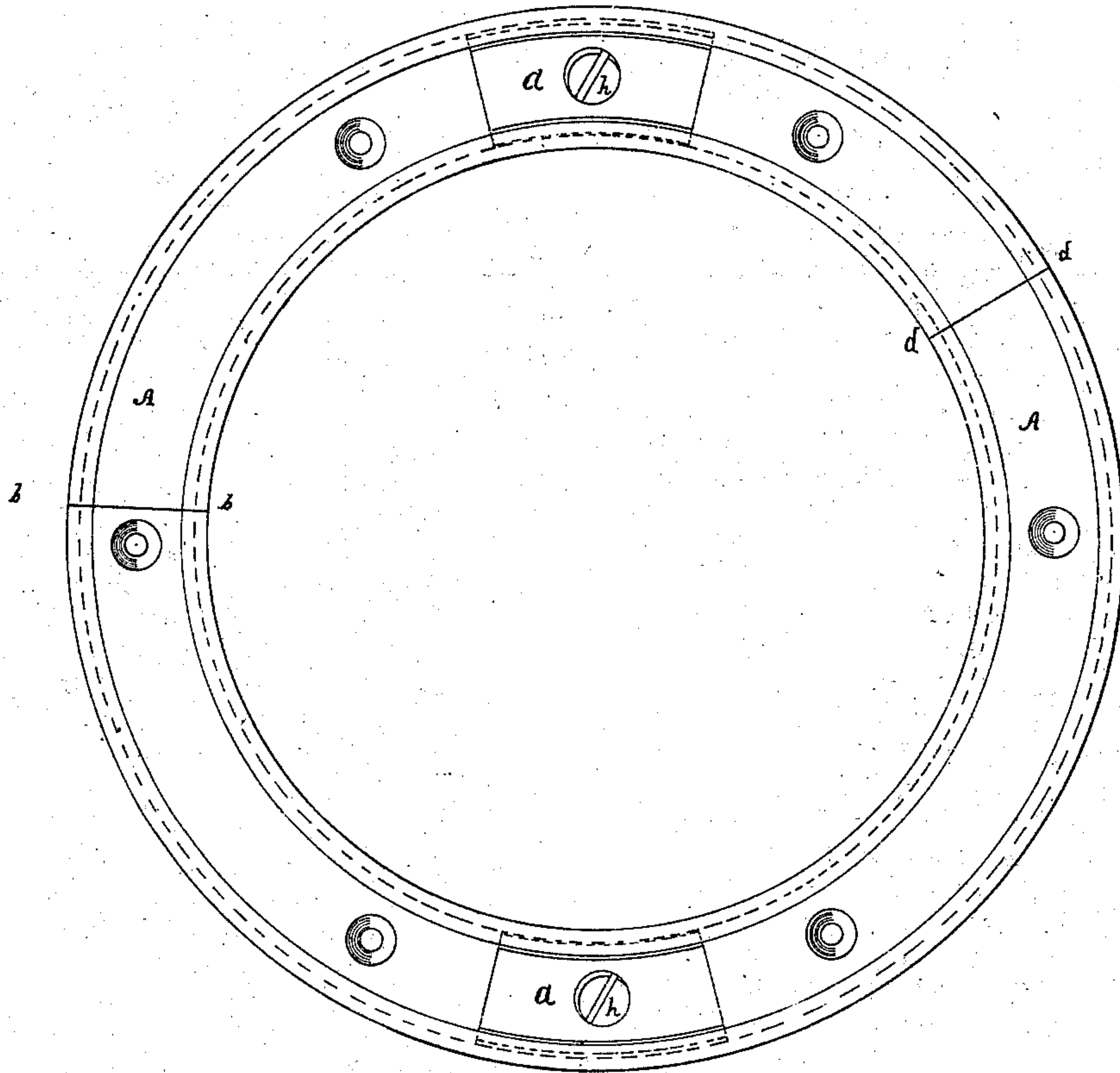


Fig 2



Fig. 3

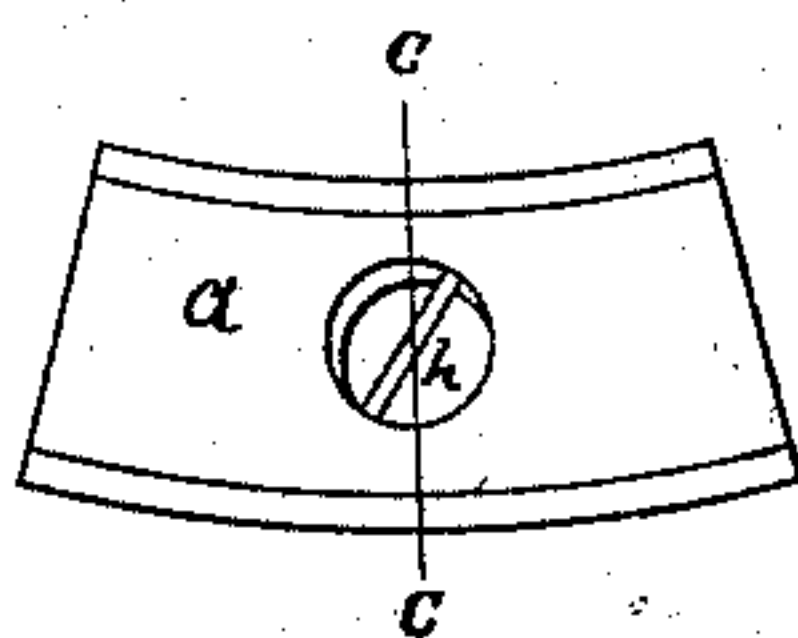


Fig 4



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Witnesses.
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UNITED STATES PATENT OFFICE.

HORACE K. JONES, OF KENSINGTON, CONNECTICUT.

IMPROVEMENT IN ATTACHMENTS FOR BALANCING POLISHING-WHEELS.

Specification forming part of Letters Patent No. 79,984, dated July 14, 1868.

To all whom it may concern:

Be it known that I, HORACE K. JONES, of Kensington, in the county of Hartford and State of Connecticut, have invented a new and Improved Attachment for Balancing Polishing-Wheels; and I do hereby declare that the following is a full, clear, and exact description of the same, which will enable others skilled in the art to make and use my said invention, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of this invention, showing the position of the weights *a a* whenever the wheel is perfectly balanced without the aid of the attachment. Fig. 2 is a horizontal section of the same, the line *b b* indicating the plane of section. Fig. 3 is an elevation of the weight *a*. Fig. 4 is a transverse vertical section of the weight *a* on the line *c c*.

Similar letters of reference indicate corresponding parts.

This invention consists in the use, for the purpose of balancing polishing-wheels and other wheels required to run at a high velocity, of two or more weights fitted so as to be easily moved in a groove or track fixed upon the side of the wheel and concentric with it. These weights are each capable of being fastened at any desired point in their track by a set-screw.

A represents a ring of cast-iron, in one side

of which is a T-shaped groove. This ring is separated at *d d* for convenience of introducing the weights *a a*, and is pierced with holes for the reception of wood-screws, by which it is to be fastened to the wheel.

a represents a weight made of cast-iron or other suitable material and fitted so as to slide freely in the groove in the ring A. This weight is fitted in the center with the set-screw *h*, by which it may be fastened at any point in the groove of the ring A.

Operation: The ring A, containing the weights *a a*, having been fastened in a concentric groove in the side of a polishing-wheel, the wheel is put upon a mandrel, which is placed upon parallel horizontal ways. The wheel will then make a partial revolution, until its heaviest part settles under the axis of the mandrel. One or both of the weights are then moved and fastened in such a position that they will exactly counterbalance the heavy part when the wheel is ready for use.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the ring A and weights *a*, constructed and arranged, as herein described, with a polishing-wheel, for the purpose of balancing it, substantially as specified.

HORACE K. JONES.

Witnesses:

ORVILLE H. PLATT,
RATCLIFFE HICKS.