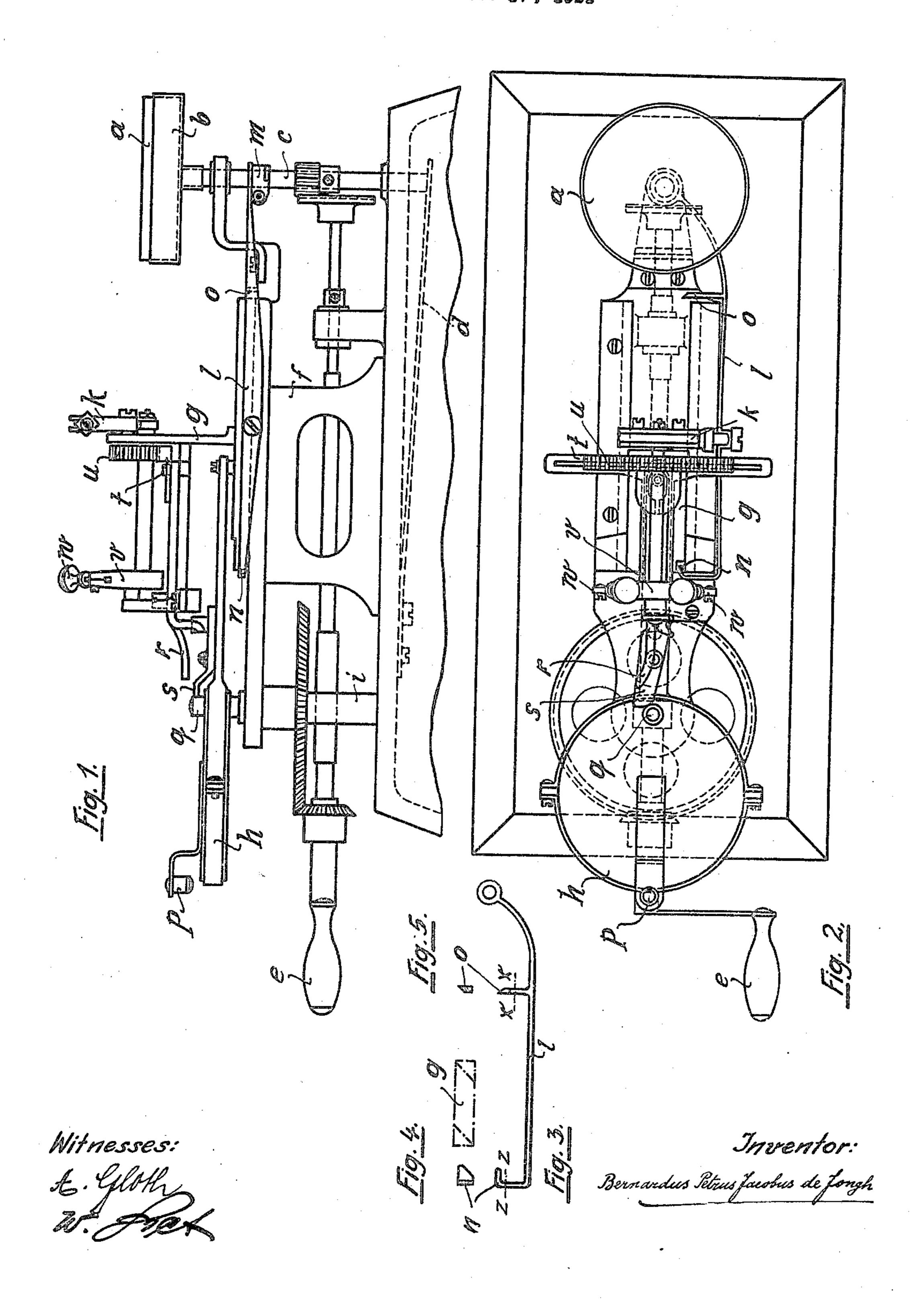
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APPARATUS FOR SHARPENING RAZORS

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UNITED STATES PATENT OFFICE.

BERNARDUS PETRUS JACOBUS DE JONGH, OF BREDA, NETHERLANDS.

APPARATUS FOR SHARPENING RAZORS.

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To all whom it may concern:

JACOBUS DE JONGH, a subject of the Queen of tion with a holder k, in which the razor to the Netherlands, and residing at Breda, be sharpened is to be fixed. The razor is, 5 Netherlands, have invented certain new and thus, so reversed at the end of each stroke of useful Improvements in Apparatus for the eccentric h that the two sides of its cut-Sharpening Razors, of which the following ting-edge are alternately brought in contact is a specification.

¹⁰ apparatus for sharpening razors of that of the holder k, arms v with adjustingknown type, in which the razor is inserted screws w are firmly mounted. By a corre- 65 in a reversible holder and reciprocated in sponding adjustment of said screws w the the direction of its cutting-edge upon a hori- oscillation of the holder k to both directions

prises a horizontally rotatable grinding- matically by their own weight to keep the 70 stone, a reversible and reciprocating holder for the razor to be sharpened, means to lower said grinding-stone during the reversion of 20 said holder, and adjustable means to limit guided on the shaft c and adapted to bear the reversing movement of said holder, sub-against an abutment m. Said balance-beam 75 stantially as hereinafter described and projects with lateral projections n and o into claimed.

In the accompanying drawing: Figs. 1 25 and 2 are respectively a side view and a plan that is also at the turning-over of the razor view of the improved apparatus, while Fig. 3 shows a detail in a plan view, and Figs. 4 and 5 are sections, respectively on the lines z-z and x-x of Fig. 3.

in a cup b at the upper end of a shaft c. The lower end of said shaft bears upon a 35 apparatus and which tends to press said contact with said grinding-stone. shaft, and thus also the grinding-stone, upwards. For intended use of the apparatus, 40 frame f carries a slide g, which is set in re- ing holder for the razor to be sharpened, ing. Said eccentric h carries two rollers p and q, which are adapted to act upon a lever r mounted upon said slide, namely p directly and q through the medium of an intermediary lever s. Upon rotation of the eccentric h, the lever r is alternately turned to 50 one and to the other side of the slide q, a toothed rack t, which gears with a toothed wheel u, being caused to participate in said movement and turn said toothed wheel u for about one half revolution alternately to the

left and to the right. Said toothed wheel u, 55 Be it known that I, Bernardus Petrus which is mounted on the slide g, is in connecwith said grinding-stone and thus sharpened. This invention relates to improvements in On the axle of the toothed wheel u and thus zontally rotatable grinding-stone. can be exactly controlled or determined. The improved apparatus essentially com- Said arms v serve at the same time autorazor to be sharpened in contact with the grinding-stone α . On the frame f, a balance-beam l is arranged, with its front end the path of the slide of. At the reversing point of the latter during its reciprocation, to be sharpened from one side of its cutting- 80 edge to the other relatively to the grindingstone a, said slide g strikes with inclined planes thereon (Fig. 4) against similar ina is the grinding-stone with horizontally clines of the projections n, o of the balancearranged grinding surface, which is inserted beam l, whereby the latter is so adjusted that 85 the shaft c is pressed downwards against the action of the blade-spring d and the razor blade-spring d riveted to the frame f of the can be freely turned-over without coming in

What I claim, is:— 1. In an apparatus for sharpening razors, the shaft c is set in rotation from a hand- in combination, a horizontally rotatable crank e by means of a toothed-gearing. The grinding-stone, a reversible and reciprocatciprocating movement by means of an eccen- means to lower said grinding-stone during 95 tric h keyed on the axle i, which gears with the reversion of said holder, and adjustable said hand-crank e by means of a bevel-gear-means to limit the reversing movement of said holder, substantially as and for the purpose set forth.

2. In an apparatus for sharpening razors, 100 in combination, a horizontally rotatable grinding-stone, a reversible and reciprocating holder for the razor to be sharpened, a slide carrying said holder, means to lower said grinding-stone during the reversion of 105 said holder comprising a balance-beam adapted to be actuated by said slide and to act upon the axle of said grinding-stone, and

adjustable means to limit the reversing movement of said holder, substantially as

and for the purpose set forth.

3. In an apparatus for sharpening razors, in combination, a horizontally rotatable grinding-stone, a reversible and reciprocating holder for the razor to be sharpened, means to lower said grinding-stone during the reversion of said holder, and adjustable means to limit the reversing movement of

o means to limit the reversing movement of said holder comprising arms with adjusting-

screws on the turning-axle of said holder substantially as and for the purpose set forth.

In testimony whereof I have hereunto set 15 my hand in the presence of two subscribing witnesses.

BERNARDUS PETRUS JACOBUS de JONGH.

Witnesses:

GERVAN ALPHEN, A. BOCKEM.