

(No Model.)

D. REED.
CUTLERY GRINDER.

No. 480,035.

Patented Aug. 2, 1892.

Fig. 1.

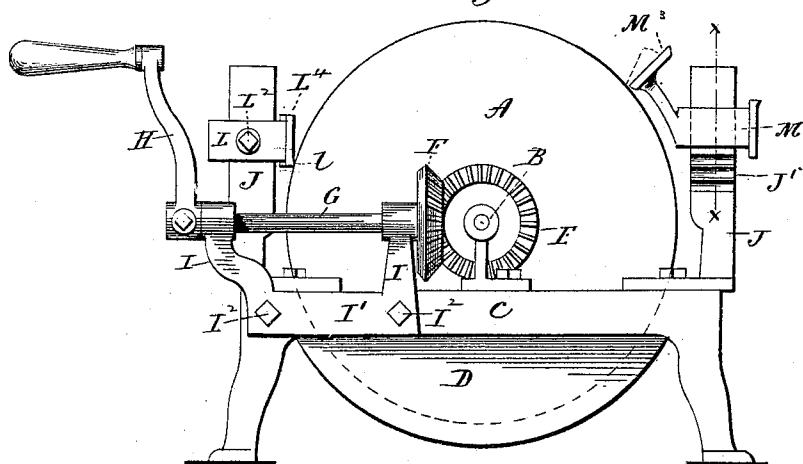


Fig. 2.

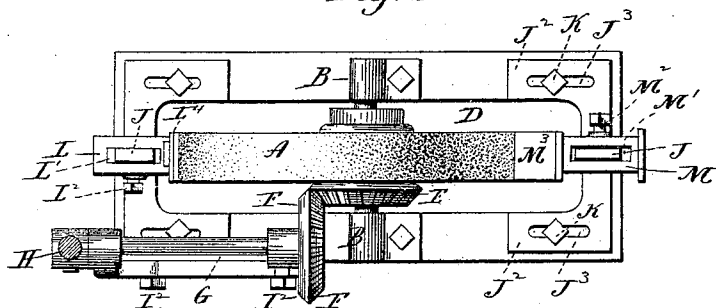


Fig. 3.

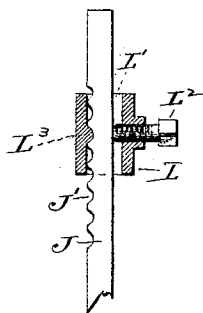
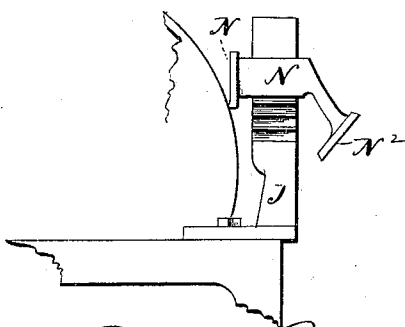


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

DANIEL REED, OF ANSONIA, CONNECTICUT.

CUTLERY-GRINDER.

SPECIFICATION forming part of Letters Patent No. 480,035, dated August 2, 1892.

Application filed January 4, 1892. Serial No. 416,974. (No model.)

To all whom it may concern:

Be it known that I, DANIEL REED, of Ansonia, in the county of New Haven and State of Connecticut, have invented a new Improvement in Cutlery-Grinders; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view of the device in side elevation; Fig. 2, a plan view thereof; Fig. 3, a broken view showing an upright of one of the rest-carriers in elevation, while the rest applied to it is represented in vertical section; Fig. 4, a broken view, in side elevation, showing a modified form of rest.

My invention relates to an improvement in machines for grinding cutlery, the object being to produce for this purpose a simple, convenient, and effective device.

With these ends in view my invention consists in a machine having certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

As herein shown, the grindstone A, which may be of any approved construction, is journaled in bearings B B, secured to opposite edges of a low standard C, which is furnished with a trough D, located below the said stone. A bevel-gear E, mounted on the shaft carrying the stone, meshes into a corresponding gear F, secured to the inner end of a driving-shaft G, the opposite end whereof is furnished with a handle H, the said shaft being journaled in the arms I I of a frame I', which is secured by bolts I² I² to one edge of the standard C.

As shown by Figs. 1 and 2 of the drawings, the device is provided with two laterally-adjustable rest-carriers, respectively located at opposite ends of the standard and in line with the grindstone. Each of the said carriers comprises an upright J, having one of its faces provided with a vertical series of transverse pockets J' and two horizontal longitudinally-slotted feet J² J², sufficiently separated to straddle the trough D and rest upon the opposite sides of the standard, their slots J³ J³

receiving bolts K K, by means of which they are adjustably secured thereto. As shown in the said figures of the drawings, one of the said rest-carriers is provided with a rest L, 55 having a vertical central opening L', adapting it to fit over the upright of the rest-carrier to which it is applied and upon which it is vertically adjusted and secured in any desired position by means of a set-screw L², 60 which draws a transverse rib L³, (see Fig. 3,) projecting into its opening L' into one of the grooves J on the face of the upright. The inner end of this rest is furnished with a straight or square operating-face L⁴, which 65 stands in a vertical plane and has its extreme lower end provided with an inwardly-projecting curved lip L. This rest is designed for sharpening knives, which are better held up to the stone by means of the said curved lip, 70 which throws their edges inward onto the stone and constantly urges them in that direction, while the upper edges or backs of the knives rest upon the straight portion of the said operating-face, which, therefore, when 75 made as described, holds the knives steady and enables their edges to be nicely and accurately ground, whereas rests having concaved faces as heretofore made favor a wobbling motion of the knives and prevent them 80 from being so nicely sharpened. The upright of the other rest-carrier is furnished with a rest M, having a central opening M' and furnished with a set-screw M² and constructed with an inclined operating-face M³, which will 85 be found very convenient for supporting the blades of shears and scissors in right relation to the stone. If preferred, this face may be very slightly concaved to suit the ordinary conformation of shears and scissor-blades. 90 This rest is also adapted to be secured in any position of adjustment by means of an inwardly-projecting transverse rib, (not shown,) but corresponding to the rib L³. (Illustrated by Fig. 3 of the drawings.) I do not necessarily employ two rest-carriers, however, as one 95 will answer the purpose, and instead of employing two independent rests I may combine them in one, as shown by Fig. 4 of the drawings, in which the rest N is provided at one 100 end with a square operating-face N', corresponding to the face L⁴, before described, and

at its opposite end with an inclined operating-face N², corresponding to the face M², before described.

It will be understood that the rest or rests
5 are raised or lowered according to the degree of bevel to be imparted to the edge being sharpened.

A cutlery-grinder thus constructed will be found very convenient to operate and very
10 effective in use on account of the ease of adjusting the rests and of the superior way in which they present the objects to be ground to the stone.

Having fully described my invention, what
15 I claim as new, and desire to secure by Letters Patent, is—

1. In a machine for grinding cutlery, the combination, with the standard thereof, of a grindstone journaled thereupon, means for

rotating the said stone, a laterally-adjustable 20 rest-carrier having two corresponding horizontal slotted feet adapted in their spread to rest upon the opposite sides of the said standard at one end thereof, and an upright rising centrally between the said feet, and a rest 25 having an opening to adapt it to fit over the said upright to which it is adjustably secured.

2. In a machine for grinding cutlery, a rest having a square face constructed at its lower edge with an inwardly-projecting curved lip, 30 substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

DANIEL REED.

Witnesses:

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