J. A. Ewins,

Knife Scourer.

No. 69,905. Patented Oct. 15, 1867.

Fig: 4.

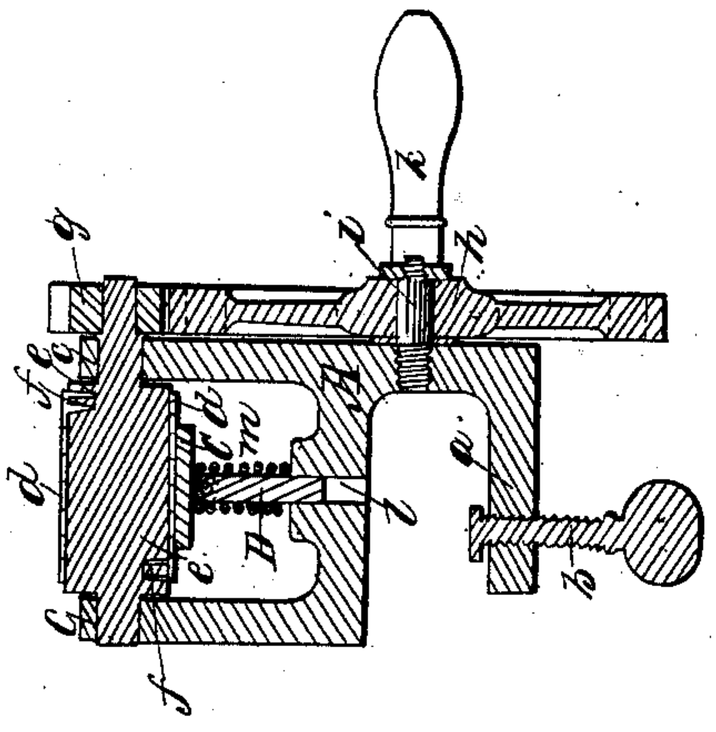


Fig: 3.

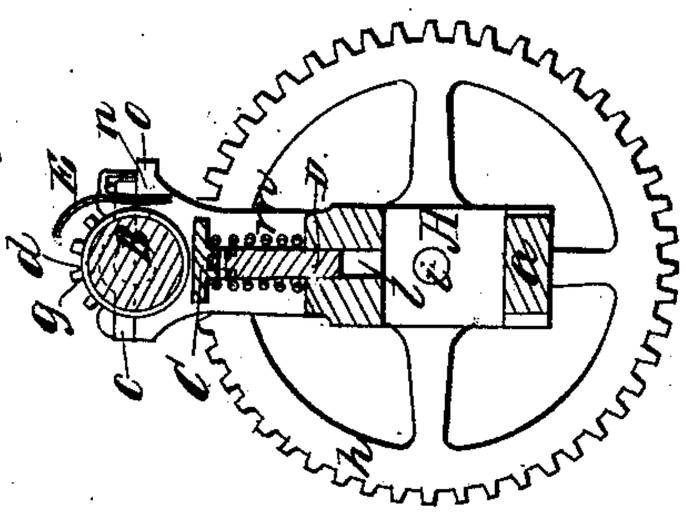


Fig: 1

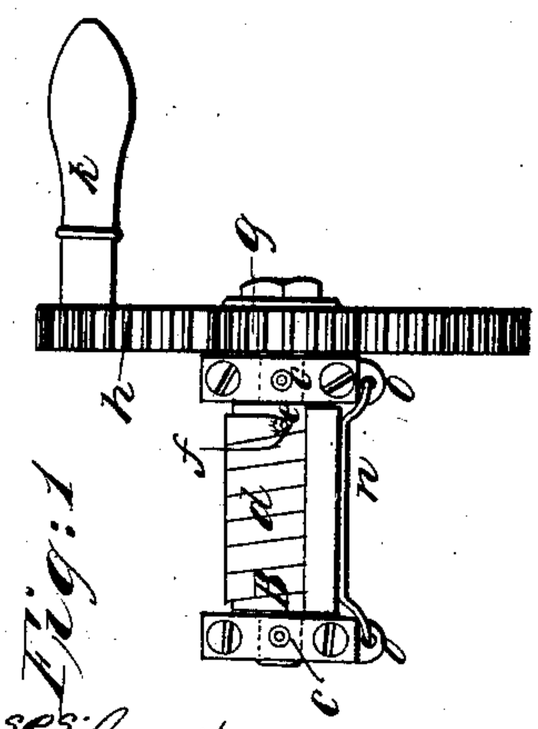
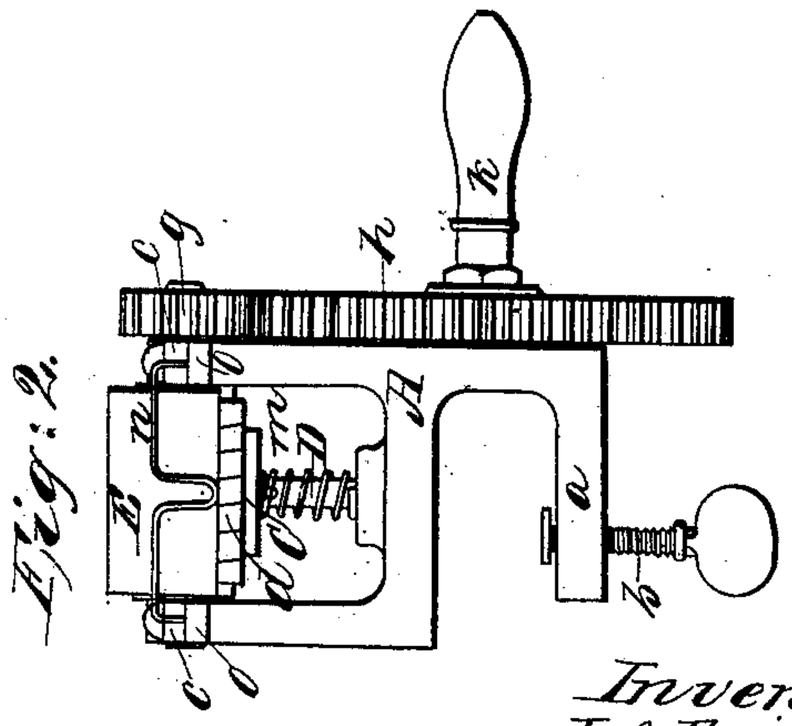


Fig: 2.



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United States Patent Office.

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Letters Patent No. 69,905, *dated October* 15, 1867.

IMPROVED KNIFE-CLEANER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME:

Be it known that I, JOHN A. EWINS, of South Boston, in the county of Suffolk, and State of Massachusetts, have invented a new and useful Machine for Cleaning Knives and Cutlery; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view,

Figure 2 a front elevation,

Figure 3 a transverse section, and

Figure 4 a longitudinal section of it.

In such drawings A is a frame, formed with a bent arm, *a*, provided with a clamp-screw, *b*, extending through it, such arm and screw being for the purpose of fastening the frame to a table or bench. The frame A supports in boxes, *c c*, the journals of a metallic cylinder, B, having a strap, *d*, of leather wound in a helix about its periphery. The said cylinder is provided with holes, *e*, to receive the ends of the helix, which are confined in the holes by plugs or pins, *f*, driven therein. On the shaft of the cylinder is a pinion, *g*, which engages with a driving-gear, *h*, fixed on a journal, *i*, projected from the frame. A crank, *k*, extending from the wheel *h*, serves to enable a person to put such gear in revolution. Underneath the cylinder is a presser, C, which is hinged to the upper end of a vertical rod, D, that goes through, so as to be capable of sliding freely in a hole, *l*, made in the frame. The said rod is encompassed by a helical spring, *m*, which serves to force the presser toward the cylinder. A guard-plate, E, formed as represented, is held up to the curved surface of the cylinder by a wire, *n*, whose ends are inserted in ears *o o*, projecting from the frame. This guard serves to hold a supply of the polishing-material in contact with the cylinder while it may be in use.

To effect the polishing or cleaning of a knife while the cylinder may be in revolution, it will be necessary to pass the blade of the knife between the cylinder and the presser, the latter moving so as to accommodate itself to the varying thickness or transverse section of the knife, and operating to press the knife closely against the cylinder. By moving the blade longitudinally back and forth it may be cleaned, provided the cylinder be supplied with emery, sand, or a proper cleaning-powder. The guard will retain the cleaning-material on the cylinder, and prevent it from being wasted. This little machine will be found to operate to excellent advantage for the purpose for which it is intended.

I claim the combination and arrangement of the polishing or cleaning-cylinder, and its operative mechanism, with the self-adjusting presser and the guard, the whole being applied to a frame, so as to operate as described.

JOHN A. EWINS.

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