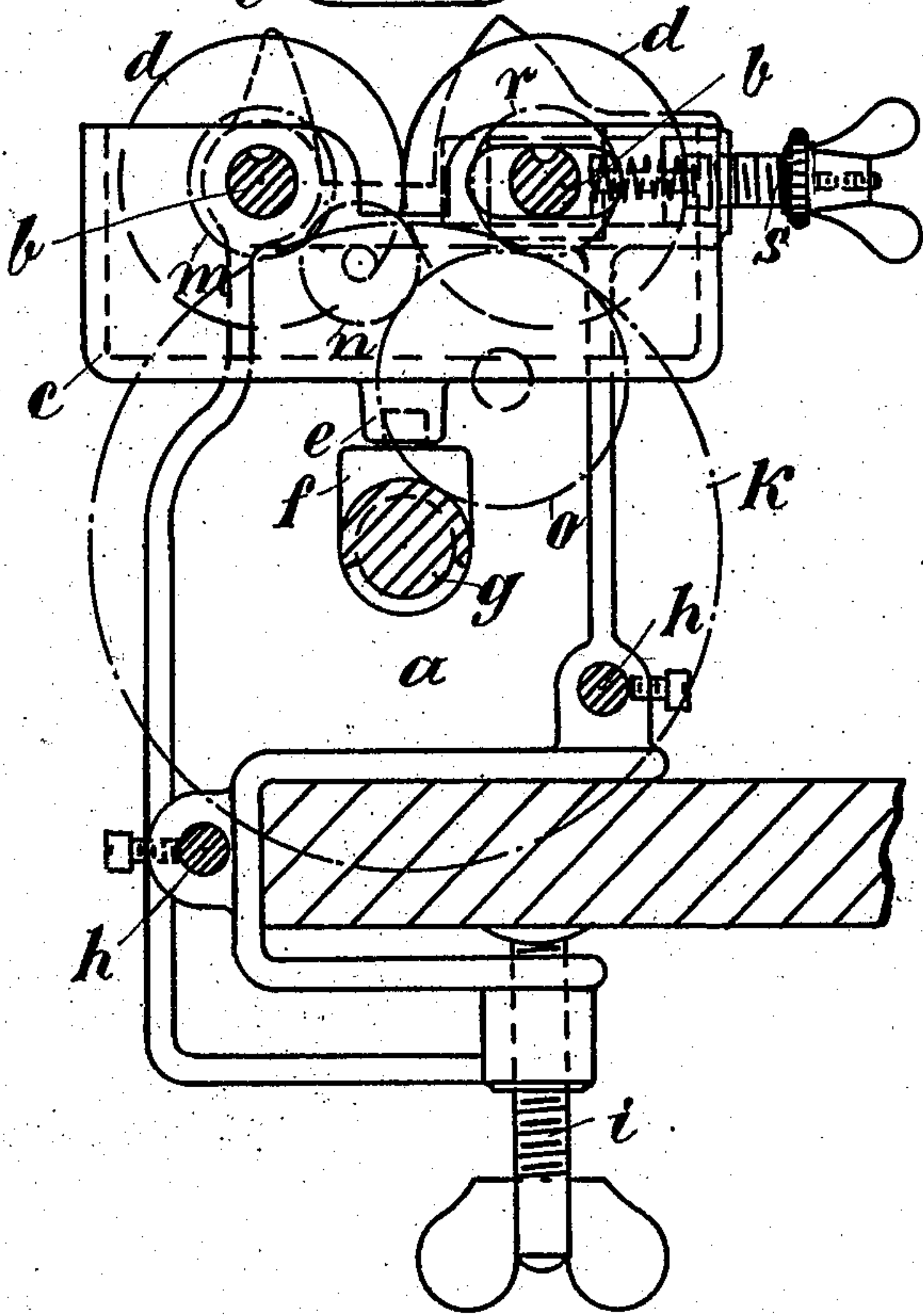
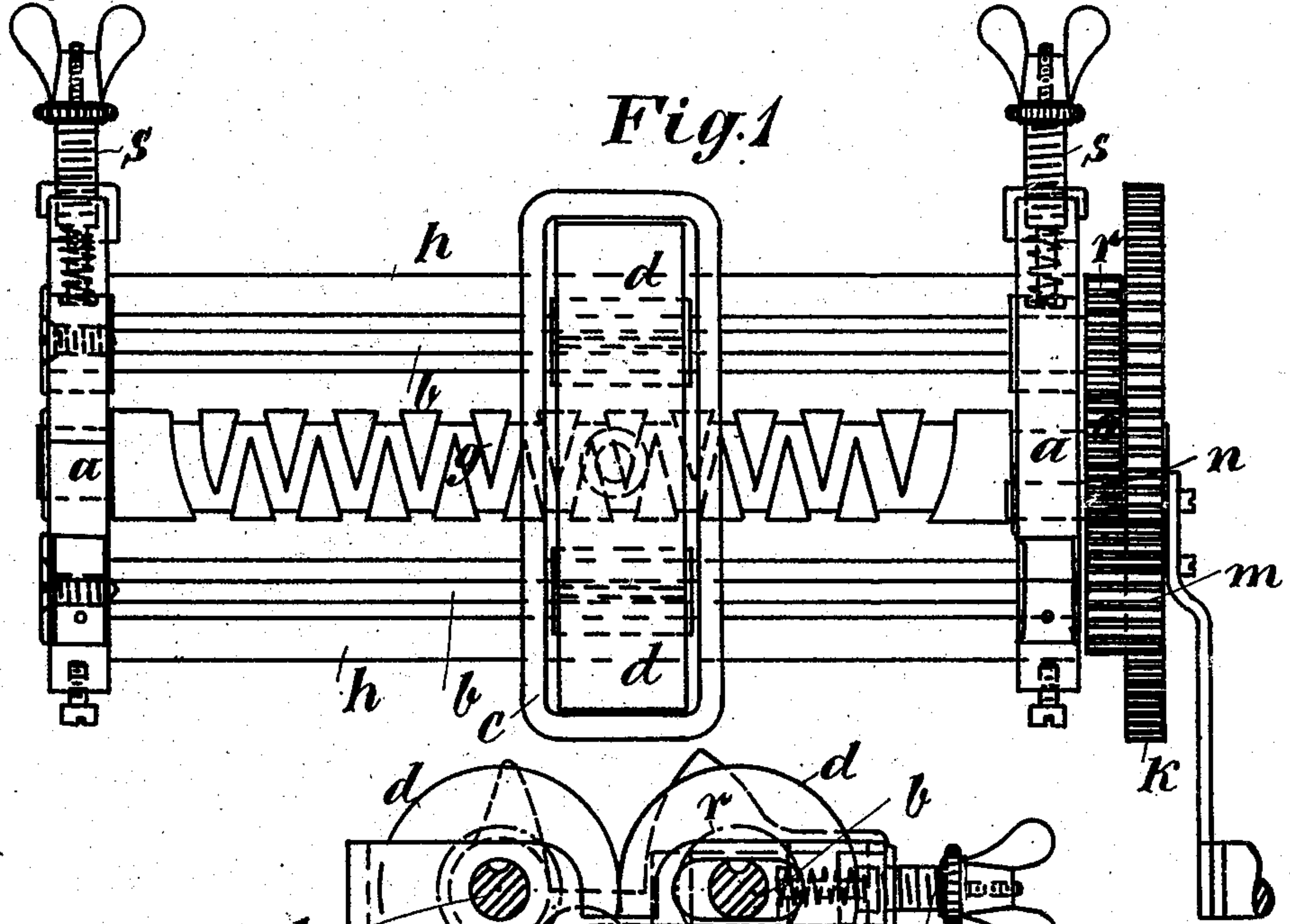


J. MÜLLER.  
KNIFE SHARPENING MACHINE.  
APPLICATION FILED AUG. 12, 1907.

911,744.

Patented Feb. 9, 1909.



Witnesses  
Otto Dünner  
Gustav Piepenbrunn

Inventor  
Johf Müller  
by Hammer  
Atty



# UNITED STATES PATENT OFFICE.

JOSEF MÜLLER, OF BARMEN, GERMANY.

## KNIFE-SHARPENING MACHINE.

No. 911,744.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed August 12, 1907. Serial No. 388,214.

*To all whom it may concern:*

Be it known that I, JOSEF MÜLLER, residing in the city of Barmen, Empire of Germany, Rhenish Prussia, a subject of the Emperor of Germany, have invented new and useful Improvements in Knife-Sharpening Machines, of which the following is a specification.

My invention relates to knife sharpening machines and it has for its object a device, which is provided with two or more grindstone rolls for treating the knife said rolls having a combined rotating and reciprocating movement so that the knife lying unmoved in the machine is sharpened on the whole length of its blade.

On the accompanying drawing Figure 1 is a top view of the machine, Fig. 2 a vertical section taken along line I—I of Fig. 1.

The machine consists of two standards *a* which are connected by the bars *h* and are provided with screws *i* for fastening it to a table. In said standards are turnably located the shafts *b* and on said shafts are seated the two grindstones or rolls *d* that are turnably secured on said shafts but at the same time may be shifted thereon. The grindstones *d* are surrounded by a box *c* which receives the grinding matter of pulverized or liquid form as desired.

By *g* is marked a spindle or shaft journaled in the frames *a* which has a left and right screw thread and is in connection with the box *c* by means of a nut which is pivotally secured to said box. By turning the shaft *g*

by means of the crank *u* the same will cause the box *c* with the rollers *d* to reciprocate. The rotation of the same is effected in the following way: On the spindle *g* is seated a gear *k* which meshes with a gear *m*, being in connection with a gear *n* and the latter drives by means of a toothed wheel *o* the gear *r*. The wheels *r* and *m* are keyed to the shafts *b* and by this gearing the rolls *d* are caused to revolve and sharpen the knife blade being held between them on different parts of its length. For regulation of the rollers *d* the set screws *r* are provided.

I do not limit myself to the device shown for traveling the rollers *d* to and fro, this may be changed by any other suitable means.

What I claim is:

In a knife sharpening machine the combination of two standards, two shafts carried therein, a gear to revolve said shafts in contrary direction, two grindstones seated on said shafts one of which having a lateral adjusting motion, a casing surrounding said grindstones, a left and right threaded revolving shaft located in said frames said shaft having connection with the casing as described and for the purpose set forth.

In testimony whereof I have signed my name in the presence of two subscribing witnesses.

JOSEF MÜLLER. [L. s.]

Witnesses:

OTTO KÖNIG,  
HEINRICH ONGETS.