

No. 658,650.

Patented Sept. 25, 1900.

F., R. & O. KAMPFE.
RAZOR STROPPING DEVICE.

(Application filed July 17, 1900.)

(No Model.)

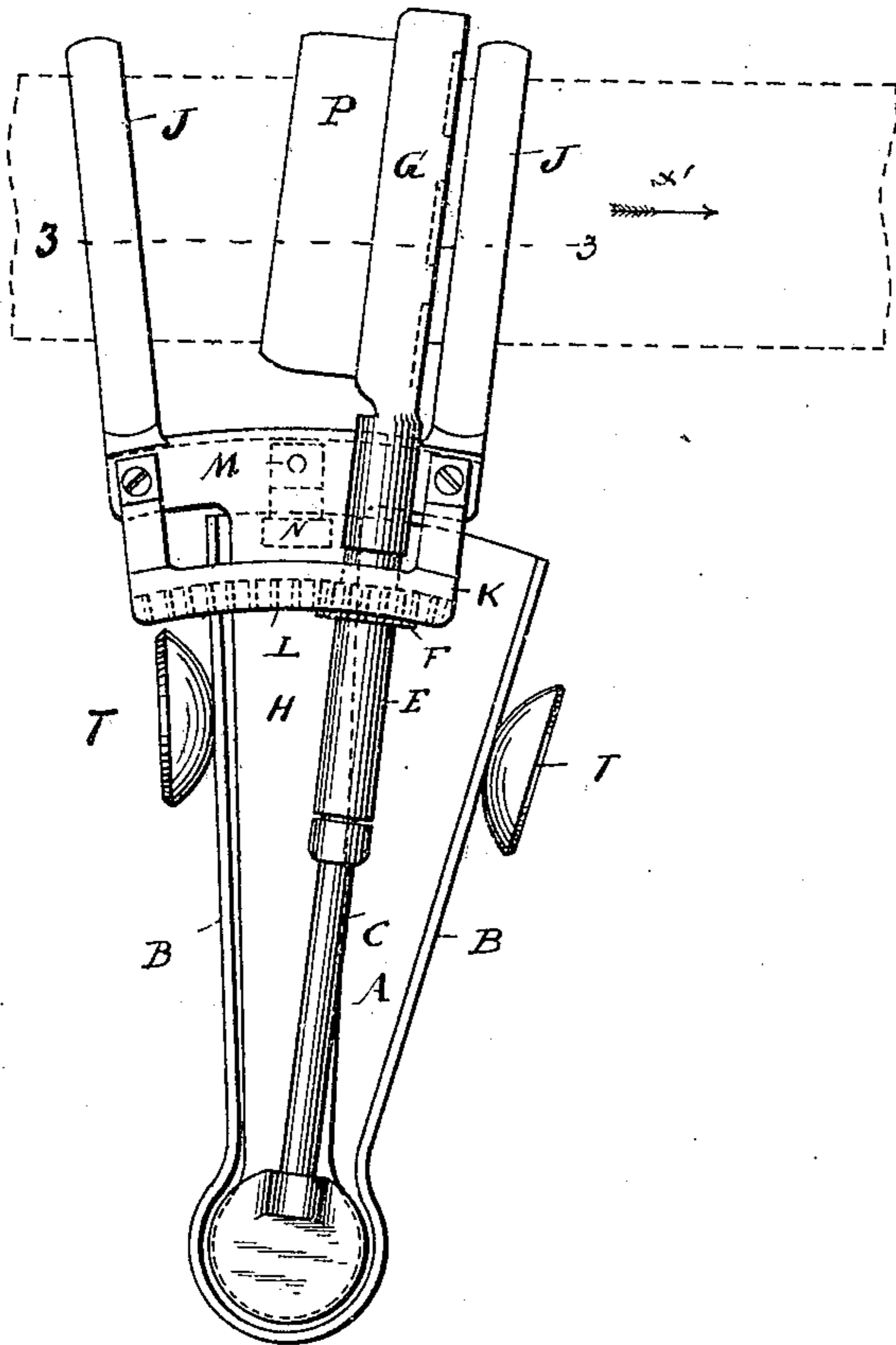


Fig. 1.

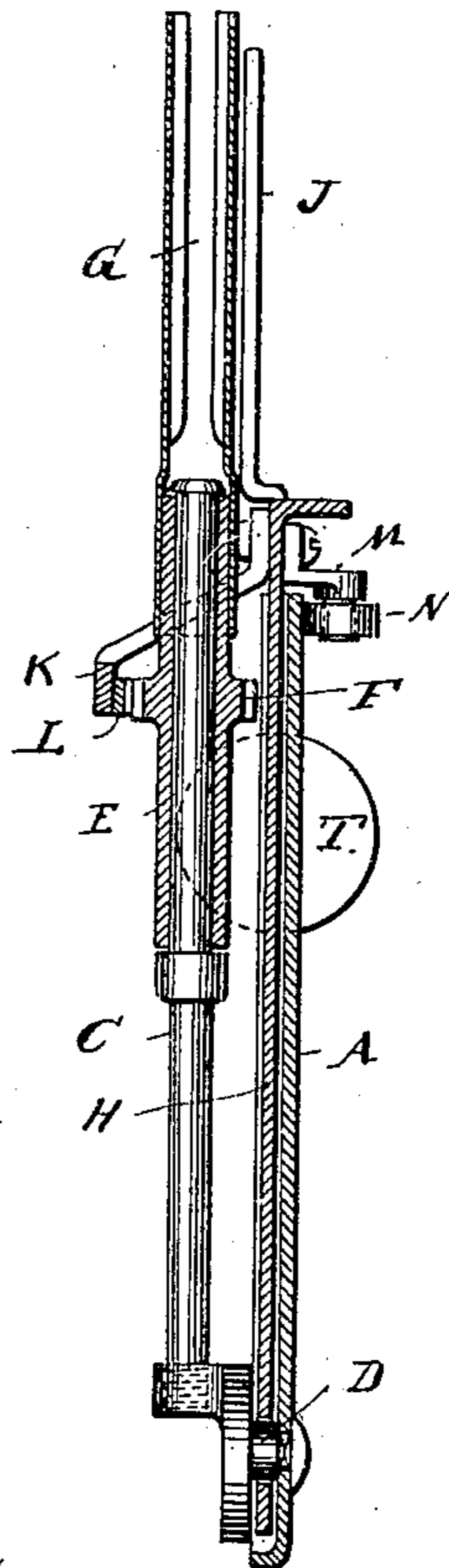


Fig. 2.



Fig. 3.

WITNESSES:

F. Stallman
H. M. Hamer

INVENTORS

F. Kampfe
R. Kampfe
O. Kampfe

BY *Oscar F. Green*
their ATTORNEY.

UNITED STATES PATENT OFFICE.

FREDERICK KAMPFE, RICHARD KAMPFE, AND OTTO KAMPFE, OF NEW YORK, N. Y.

RAZOR-STROPPING DEVICE.

SPECIFICATION forming part of Letters Patent No. 658,650, dated September 25, 1900.

Application filed July 17, 1900. Serial No. 23,903. (No model.)

To all whom it may concern:

Be it known that we, FREDERICK KAMPFE, RICHARD KAMPFE, and OTTO KAMPFE, citizens of the United States, and residents of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Razor-Stropping Devices, of which the following is a specification.

10 The object of our invention is to provide a new and improved razor-stropping device, which is simple in construction, strong and durable, and effective and reliable in use.

15 In the accompanying drawings, in which like letters of reference indicate like parts in all the figures, Figure 1 is a face view of our improved razor-blade-stropping device. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view on the line 3 3 of Fig. 1.

20 The handle-frame A is substantially sector-shaped and has side flanges B. A rod C has its lower end fixed to the lower end of the frame A by a pin D, and said rod extends longitudinally and centrally over one face of said frame. A sleeve E is mounted loosely on the rod C, and on it is formed a pinion F. A blade-holder G, substantially U-shaped in cross-section, is secured to the upper end of the sleeve E and extends beyond the upper end of the frame A. A plate H, which is located between the rod C and the frame A, is pivoted at its lower end on the pin D, so as to adapt it to swing over the frame A between the side flanges B of the same, and from the upper end of this plate two flat prongs J project, which form friction-arms which are to rest on the face of the strop. A cross-piece K on the upper end of the plate H extends over the rod C, and on its under side a segmental rack L is formed, which is concentric with the pin D and engages the pinion F on the sleeve E. An L-shaped or like arm M projects from the upper end part of the plate H over the upper part of the under side of the frame A and carries a roller N, which runs on the under side of the frame A and prevents the pressure on the device from bending up the plate H.

50 T are the finger-rests.

The operation is as follows: The stropping-

machine is placed upon the strop in such a manner that the friction-arms J rest flat upon the strop. If now the machine is moved in the direction of the arrow x' , Fig. 1, the blade P is moved over the strop with the back of the blade in advance of the cutting edge. When the stroke is reversed, the friction between the arms J and the strop holds the arms J and plate H at rest for the time being, and the handle-frame A and rod C with the blade-holder G swing in the inverse direction of the arrow x' on the pivot D until the right-hand flange B on the frame A rests against the right-hand edge of the plate H and forces the same also in the direction of the arrow x' , whereby the friction between the arms J and the strop is overcome. By the above-described movements of the parts in relation to each other the blade is turned on its back by the coaction of the rack L and pinion F and the blade reversed, and so on at the end of each stroke.

We have shown the friction-arms J slightly curved transversely; but they can be made perfectly flat.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a machine for stropping razor-blades, the combination with a handle-frame, of a rod fixed on the frame and extending longitudinally and centrally over the same, a blade-holder mounted rotatively on the upper end of said rod, a pinion connected with the blade-holder, a plate pivoted to the handle-frame and having friction-arms and a rack on said plate engaging the pinion on the blade-holder, substantially as herein set forth.

2. In a machine for stropping razor-blades, the combination with a handle-frame, of a rod fixed on the frame and extending longitudinally and centrally over the same, a blade-holder mounted rotatively on the upper end of said rod, a pinion connected with the blade-holder, a plate pivoted to the handle-frame between said frame and the rod carrying the blade-holder and having friction-arms and a rack on said plate engaging the pinion on the blade-holder substantially as herein set forth.

3. In a machine for stropping razor-blades, the combination with a handle-frame, of a rod

fixed on the frame and extending longitudinally and centrally over the same, a blade-holder mounted rotatively on the upper end of said rod, a pinion connected with the blade-holder, a plate pivoted to the handle-frame to swing between said frame and the rod carrying the blade-holder, a friction-arm projecting from the upper end of said plate, on each side of the blade-holder, and a rack on said plate engaging the pinion on the blade-holder, an arm on said plate at the swinging end thereof, and a roller on said arm running on the under side of the handle-frame, at the upper end thereof, substantially as herein set forth.

4. The combination with a handle-frame, of a swinging friction-plate pivoted to the same, a reversible blade-holder mounted on a rod held rigidly on the handle-frame and

means for reversing said blade-holder from the swinging plate, substantially as herein set forth.

5. The combination with a handle-frame, of a swinging friction-plate pivoted to the same, a reversible blade-holder on a fixed support on said frame and means for reversing said blade-holder from the swinging plate, substantially as herein shown and described.

Signed at New York city, in the county of New York and State of New York, this 14th day of July, A. D. 1900.

FREDERICK KAMPFE.
RICHARD KAMPFE.
OTTO KAMPFE.

Witnesses:

N. M. FLANNERY,
OSCAR F. SIMS.