

S. W. CHARLES.  
 RAZOR STROPPING DEVICE.  
 APPLICATION FILED MAY 18, 1909.

998,954.

Patented July 25, 1911.

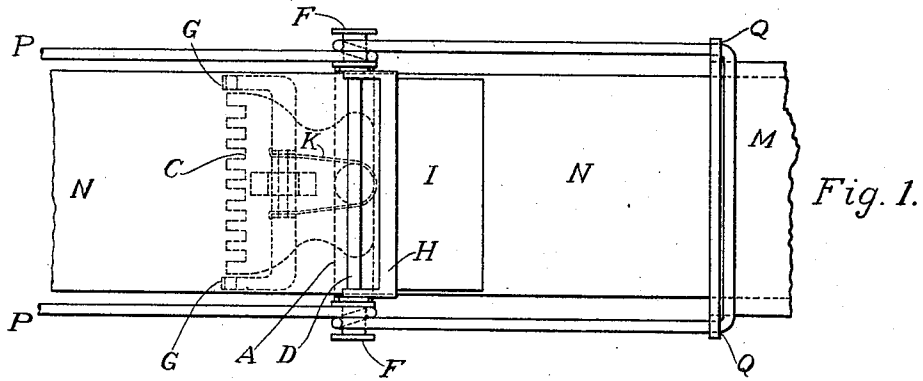


Fig. 1.

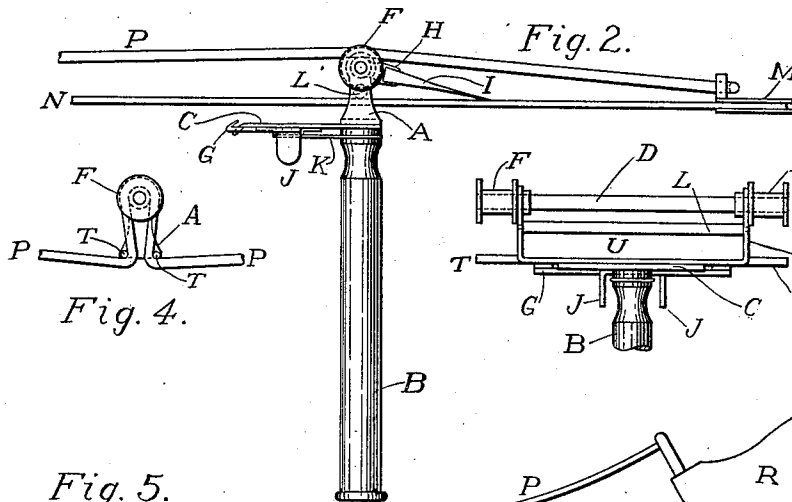


Fig. 2.

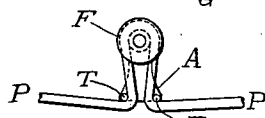


Fig. 4.

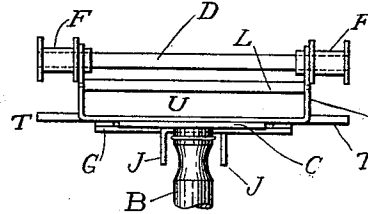


Fig. 3.

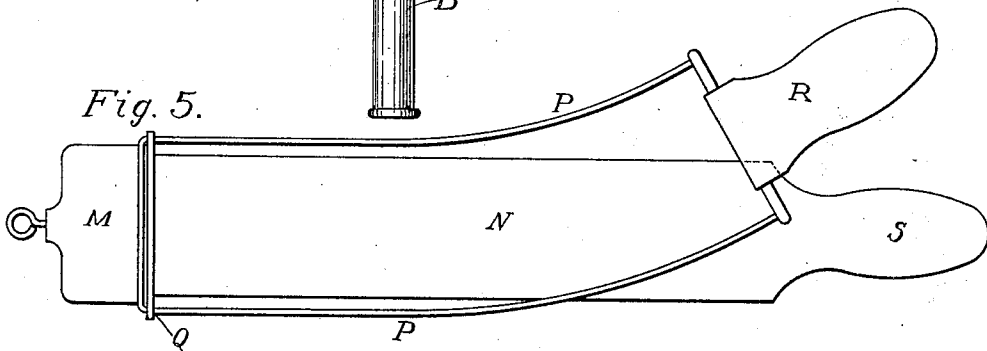


Fig. 5.

WITNESSES

L. B. Thomas  
 W. H. Kelso

Samuel W. Charles  
 INVENTOR

# UNITED STATES PATENT OFFICE.

SAMUEL W. CHARLES, OF PALO ALTO, CALIFORNIA.

## RAZOR-STROPPING DEVICE.

998,954.

Specification of Letters Patent.

Patented July 25, 1911.

Application filed May 18, 1909. Serial No. 496,856.

*To all whom it may concern:*

Be it known that I, SAMUEL W. CHARLES, of the town of Palo Alto, in the county of Santa Clara, in the State of California, have invented a new and useful Improvement in Razor-Stropping Devices, of which the following is a specification.

My invention relates to improvements in razor stropping devices, and more particularly to a device of this character especially adapted for use in conjunction with safety razors.

The primary object of my invention is to provide a device of this character which will be simple and inexpensive, and by means of which a razor may be correctly stropped. I attain this object by the mechanism illustrated in the accompanying drawing.

This mechanism consists in the construction and arrangement of parts which will be more fully hereinafter specified in preferred form.

In the drawing, Figure 1 is a top plan view of the invention in position on the strop for stropping. Fig. 2 is a side view corresponding to Fig. 1. Fig. 3 is a partial rear view of the device. Fig. 4 is a partial side view of the device. Fig. 5 is a view of the strop showing the manner in which the cords are attached.

The constituent parts of the razor are the frame A to which is attached the handle B and combed guard plate C.

D is a shaft and is free to turn in frame A. I is the blade and is held in a slot in the blade holder H. Pulleys F and blade holder H are rigidly attached to shaft D so that the turning of the pulleys F revolves the blade holder H and blade I. The blade I is held in place for shaving by movable latch fingers G, the hooked ends of which project over each corner of the blade. The latch fingers are held in locking position by spring K which is fastened to handle B. The blade is released by pressing together the two latch handles J, which spread apart the latch fingers G. The blade I may then be swung clear of the guard plate C for stropping or cleaning.

L is a bar in frame A and serves to maintain proper relation between strop and blade in the act of stropping.

The strop Fig. 5 consists of clamp M to which are attached strop N and cords P. These cords pass through openings Q in

clamp M and are fastened to handle R which is separate from handle S of strop.

T, Figs. 3 and 4 are prongs which form part of the frame.

I deem the following the best mode for stropping the blade: To strop the razor, the blade I is released by pressing together the two latch handles J which spread apart the latch fingers G. The strop is passed through opening U, Fig. 3, and the cords P are wound around their respective pulleys F as shown in Fig. 1. The two handles R and S are held together in one hand while with the other the razor is moved forward and backward along the strop. The action of the cords on the pulleys causes the blade to extend in the direction opposite to that in which the razor is moving. Upon reaching the end of a stroke, the return stroke is begun but the action of the cords on the pulleys is such that the blade is swung into proper position the instant the return stroke is begun, thus effectually preventing any cutting of the strop.

Fig. 1 shows the cords wound once around the pulleys, but they may be wound around more than once, or they may lie against the pulleys without a complete circle of contact. In the latter case the cords may be looped under their respective prongs T as shown in Fig. 4.

The drawings show the pulleys to be cylindrical but they may be of irregular shape and roughened or corrugated to offer greater friction to the slipping of the cords on their faces. The pulleys may also be omitted entirely and the cords wound around the shaft D which may be flanged at the ends and of suitable size for the purpose. The ends of the shaft where the cords bear may, similarly to the pulleys be cylindrical, of irregular shape, roughened or corrugated.

The action of the cords extends the blade as aforesaid and causes it to be dragged in stropping position on strop N.

Having thus described the nature and objects of my invention and the manner of its operation, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a strop, two cords extending longitudinally thereof adjacent the side edges, a frame to travel longitudinally of the strop, a rocking blade holding means carried by the frame, and pulleys engaged by said cords for rocking said blade holding means.

2. The combination of a strop having a handle at one end and an anchoring means at its other end, a pair of cords to extend longitudinally of the strop adjacent its edges and having their ends united to the strop adjacent the anchored end of the latter, a handle uniting the opposite ends of said cords and adapted to be grasped with the handle of the strop a frame movable along said strop, a movable blade carrying means on said frame, and means for moving said blade carrying means.
3. The combination of a frame, a strop guide therein, a revoluble shaft in said frame, a blade holder carried by said shaft, a strop, a cord, a cord-engaging pulley on one end of said shaft, and a pair of spaced cord-guiding prongs upon said frame adjacent said pulley.
4. The combination of a substantially U-shaped frame provided with a handle, a strop-guiding bar in said frame, a revoluble shaft in said frame, a blade holder upon the intermediate portion of said shaft, flanged pulleys fixed to the ends of said shaft, a strop, a pair of cords attached at one end to said strop, and a handle uniting the opposite ends of said cords.
5. The combination of a substantially U-shaped frame provided with a handle, a strop-guiding bar in said frame, a revoluble shaft in said frame, a blade holder upon the intermediate portion of said shaft, flanged pulleys fixed to the ends of said shaft, a strop, a pair of cords engaged with said pulleys, and pairs of cord-guiding prongs upon the ends of said frame, adjacent said pulleys.

SAMUEL W. CHARLES.

Witnesses:

W. H. KELSE,

L. B. THOMAS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."