Jan. 22, 1924. 1,481,387

B. PARATORE

POWER DRIVEN RAZOR

Filed Feb. 2, 1923

Fig. 1.

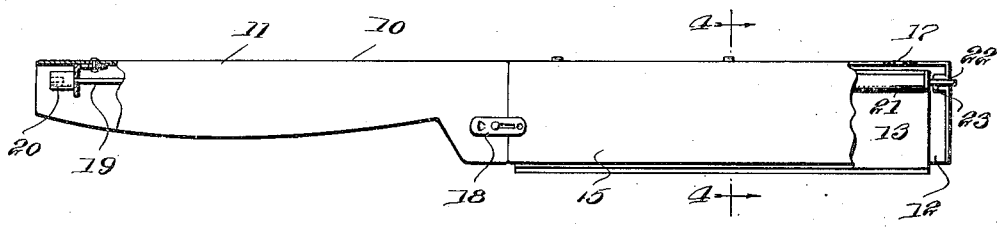


Fig. 2.

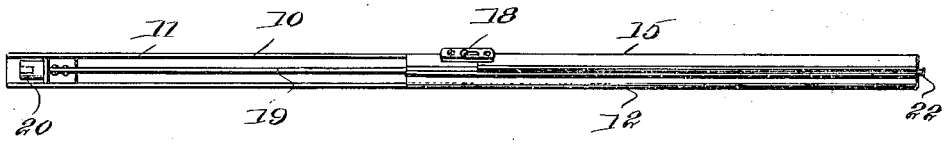


Fig. 3.

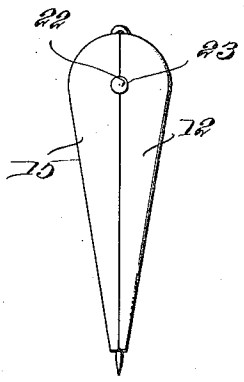


Fig. 4.

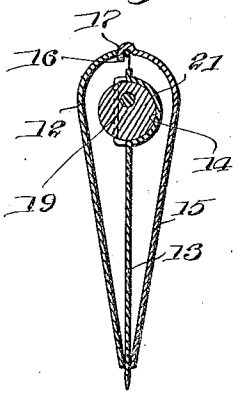
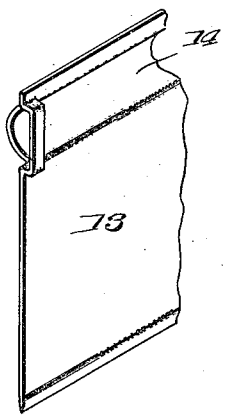


Fig. 5.



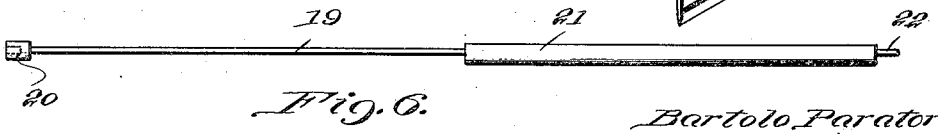


Fig. 6.

Bartolo Paratore

INVENTOR

WITNESS:

BY Victor J. Evans

ATTORNEY

Patented Jan. 22, 1924. 1,481,387

UNITED STATES PATENT OFFICE.

BARTOLO PARATORE, OF JOHNSTOWN, PENNSYLVANIA.

POWER-DRIVEN RAZOR.

Application filed February 2, 1923. Serial No. 616,550.

To all whom it may concern:

Be it known that I, BARTOLO PARATORE, a citizen of the United States, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented new and useful Improvements in Power-Driven Razors, of which the following is a specification.

This invention relates to razors and has for its object the provision of a razor having a movable blade protracted and retracted rapidly with respect to a protective casing by means of a cam driven from any suitable power device.

An important object is the provision of a device of this character in which the major portion of the blade is protected by a cover plate which is removable to facilitate cleaning the parts.

Another object is the provision of a device of this character which will give a very smooth shave, which will be positive and rapid in operation, efficient and durable in service and a general improvement in the art.

With the above and other objects and advantages in view the invention consists in the details of construction to be hereinafter more fully described and claimed and illustrated in the accompanying drawings, in which:

Figure 1 is a side elevation of the device,

Figure 2 is an edge view thereof,

Figure 3 is an end elevation,

Figure 4 is a cross sectional view taken through the blade and casing,

Figure 5 is a perspective view of one end of the blade, and

Figure 6 is a detail elevation of the operating shaft.

Referring more particularly to the drawings I have shown my device as comprising an elongated supporting member 10 which may be constructed of metal or any other desired material and which may be of any other convenient size. One end of this member 10 is formed as a handle 11 and is preferably shaped for convenient engagement within the operator's hand while the other end 12 constitutes one section of the casing for the blade 13 which is preferably of elongated rectangular shape and which is formed near one edge with a substantially semi-cylindrical recess 14, the recess being formed by stamping the blade prior to tempering thereof.

The blade is ordinarily protected by a cover plate 15 which is provided at one edge with pins 16 slidably engaged within holes 17 in the back or edge of the casing portion 12 of the supporting member 10. This cover plate protects the blade and is held in position by a detachable or movable catch 18 carried by the support 10.

Journaled longitudinally within the member 10, which is here illustrated as having its handle portion either hollow or of U-shape in cross section, is a shaft 19 having one end formed with a species of chuck or socket 20 for connection with the ultimate element of a flexible drive shaft, not shown, which is power driven by any suitable means. The other end portion of this shaft 19 carries a cam 21 which may be formed integrally thereon or which may be formed separately and secured thereto. The extremity 22 of the shaft is journaled within a bearing hole 23 in the outer end of the support 10 and the cam portion 21 is engaged within the recess 14 in the blade.

In the operation it will be seen that when the shaft 19 is rotated by whatever flexible drive connection is provided, the engagement of the cam 21 within the recess 14 of the blade will cause the blade to be reciprocated laterally, the cutting edge being extended beyond and retracted within the edge of the casing alternately, so as to have an efficient cutting action. Whenever it is necessary to clean the parts, the catch 18 is released to permit removal of the cover 15 and the parts may then be easily disassembled and scalded or otherwise treated to effect cleaning and sterilization so that the device can be kept in proper sanitary condition.

From the foregoing description and a study of the drawings it will be apparent that I have thus provided a simply constructed and consequently inexpensive power driven razor which will be easy to handle, rapid in action, and a general improvement in the art.

While I have shown and described the preferred embodiment of the invention it is of course to be understood that I reserve the right to make such changes in the form, construction and arrangement of parts as will not depart from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention I claim:

1. A power driven safety razor compris-

ing an elongated handle having one end prolonged and formed to define a casing section, a removable cover engaged against and mating with said prolongation to complete the casing, a shaft journaled longitudinally through the handle and casing and formed at one end portion with an elongated cam, and a blade movable transversely of said casing and formed with opposite offset portions, certain offset portions guiding the blade with respect to the shaft and the other offset portion bearing conformingly upon the cam, the blade projecting through a slot between said prolongation and the cover.

2. In a safety razor, a casing having a removable cover and prolonged to define a handle, a shaft journaled longitudinally of the casing and handle, one end portion of said shaft being enlarged and formed as an eccentric, and a blade slidable transversely of the casing and projectable beyond one edge thereof, the blade having its inner edge portion formed with a semi-cylindrical outwardly pressed portion and a pair of bearing strips extending oppositely from said semi-cylindrical portion, said bearing strips engaging against said shafts, and said semi-cylindrical portion conformingly engaging upon said eccentric.

In testimony whereof I affix my signature.

BARTOLO PARATORE.