L. B. GIRARD AND F. L. MENELEY.

CENTERING DEVICE.

APPLICATION FILED MAR. 30, 1921.

1,424,895. Patented Aug. 8, 1922.

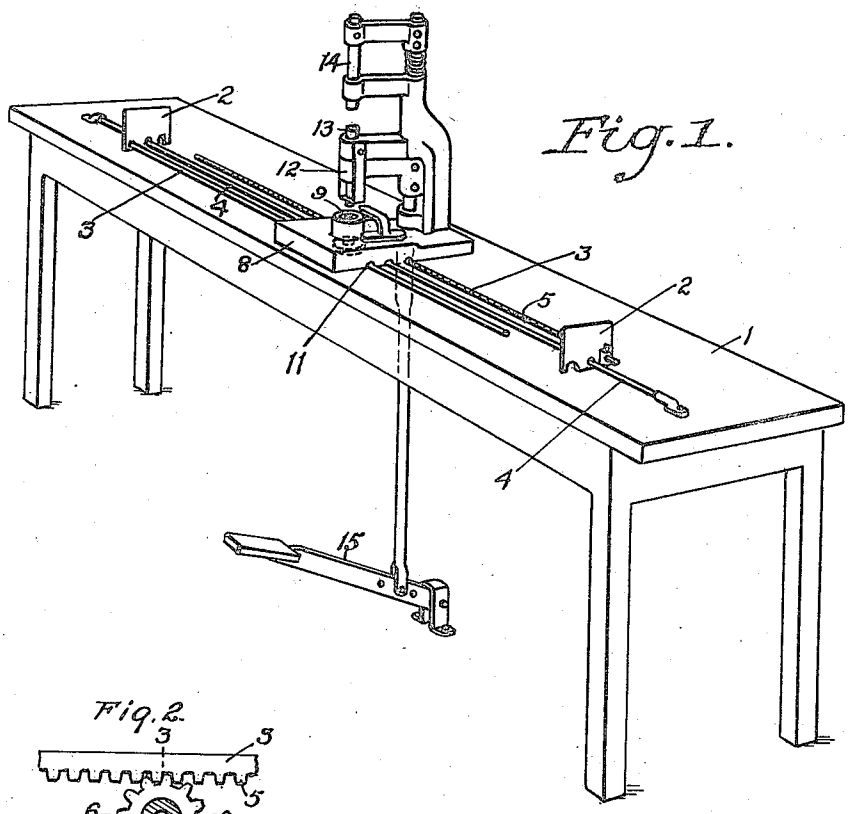


Fig. 1.

Fig. 2.

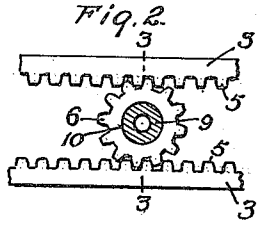
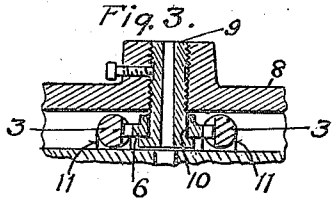


Fig. 3.



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UNITED STATES PATENT OFFICE.

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CENTERING DEVICE.

1,424,895. Specification of Letters Patent. Patented Aug. 8, 1922.

Application filed March 30, 1921. Serial No. 457,127.

To all whom it may concern:

Be it known that we, LOUIS B. GIRARD and FRED L. MENELEY, citizens of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Centering Device, of which the following is a specification.

This invention relates to a centering device particularly adapted and intended for use in connection with means for punching and inserting eyelets in window shades. The centering device may, however, be used for other purposes, and in other connections.

The main object of the invention is to provide means which will enable the shade to be centered with respect to the punching and eyeleting means in the most convenient and rapid manner.

A further object of the invention is to provide a device of extreme simplicity in construction and operation for effecting the centering operation.

The accompanying drawings illustrate an embodiment of our invention, and referring thereto:

Fig. 1 is a perspective view of the invention;

Fig. 2 is a plan view of the operating means for the centering device, the fixed die member of the punching means being shown in section;

Fig. 3 is a vertical section on line 3—3 in Fig. 2.

The device is mounted on any suitable table or support, indicated at 1, and comprising two stops 2 carried, respectively, by two rods 3, and mounted to slide on fixed guide means 4, said rods 3 being provided on their inner faces with gear teeth 5 adapted to engage a gear wheel or pinion 6 mounted to rotate on a vertical axis, which is coincident with the axis of the device with which the shade is to be centered, for example, a punching and eyeleting device. Said punching and eyeleting device may be of any usual or suitable construction comprising, for example, a base 8 provided with means for supporting a fixed die member 9, the aforesaid gear wheel or pinion 6 being mounted to turn on a bearing 10 on said die member. The two rods 3 are guided in grooves 11 in the base 8 in addition to being guided by engagement of stop means 2 with guide rods 4, which are mounted on the table 1 in any suitable manner and extend parallel to the rods 3. The punching and eyeleting device aforesaid may also comprise a movable die or punching means 12 and eyeleting devices 13 and 14, said devices 12 and 14 being operated from a treadle 15 in the usual manner.

The operation is as follows:

A shade to be operated on is placed in position with the portion thereof to be eyeleted extending over the punching means and with the edges of the shade extending between the two opposing stops 2, the said stops being moved in or out, as the case may be, and the shade manipulated so as to cause the stops 2 to touch the opposite edges of the shade, whereupon the shade will be centered with respect to the punching and eyeleting means, the latter being then operated to punch a hole in the shade and insert an eyelet therein as required, such eyelet being centered with respect to the sides of the shade by reason of the centering action of the stops 2.

What we claim is:

1. In combination with a punching means having a base provided with a fixed die member, a centering device comprising two parallel rods guided in said base and provided with teeth and a fixed gear wheel mounted to turn in said base coaxially with said die member and adapted to engage the teeth of said rods to cause equal movement thereof in opposite directions, and stop means carried by the respective rods, said stop means being equidistant from the center of said die means.

2. A construction as set forth in claim 1 and comprising in addition means for further guiding the said rods consisting of fixed guide-rods extending parallel to said rack rods, said stop means on the respective rack rods slidably engaging said fixed guide rods.

In testimony whereof we have hereunto subscribed our names this 22nd day of March 1921.

LOUIS B. GIRARD.
FRED L. MENELEY.