

No. 638,969.

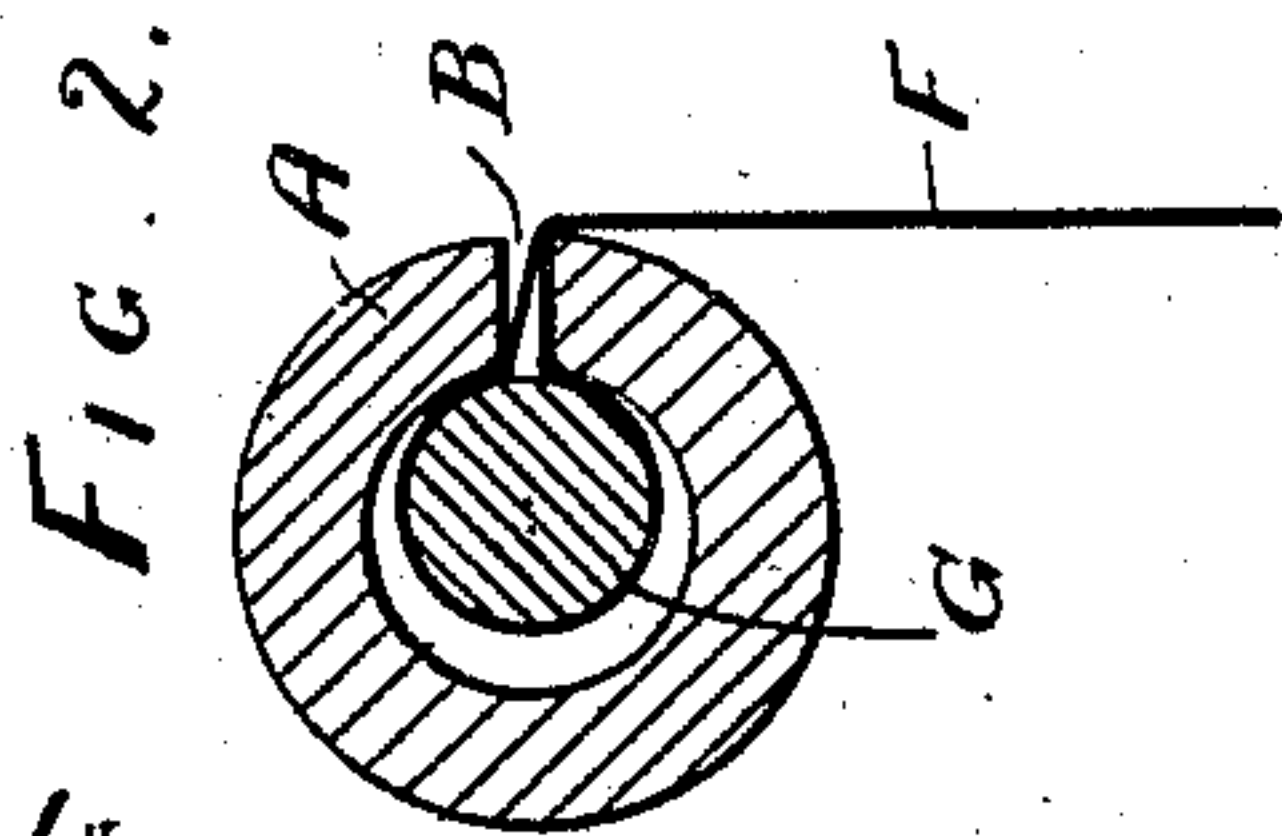
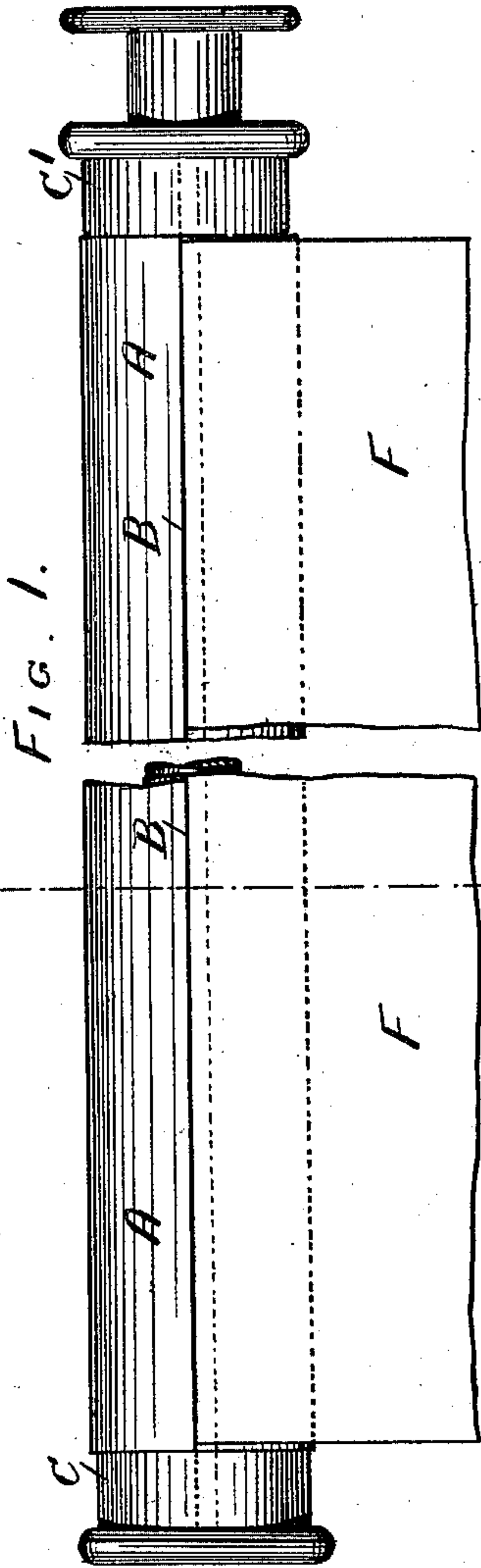
Patented Dec. 12, 1899.

W. C. KINCAID.

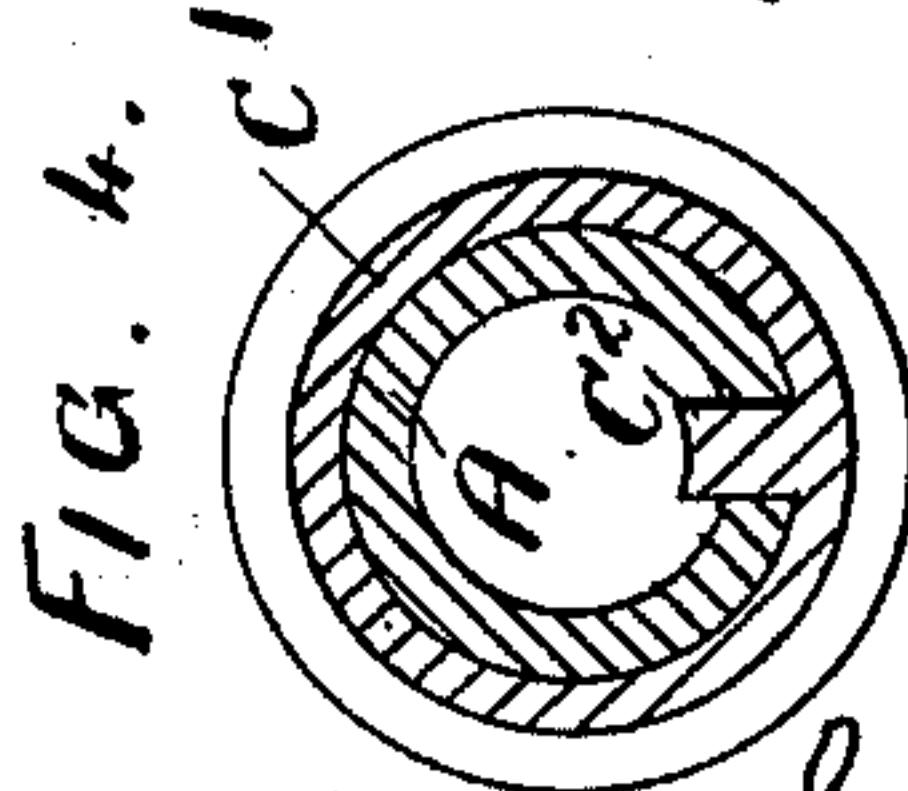
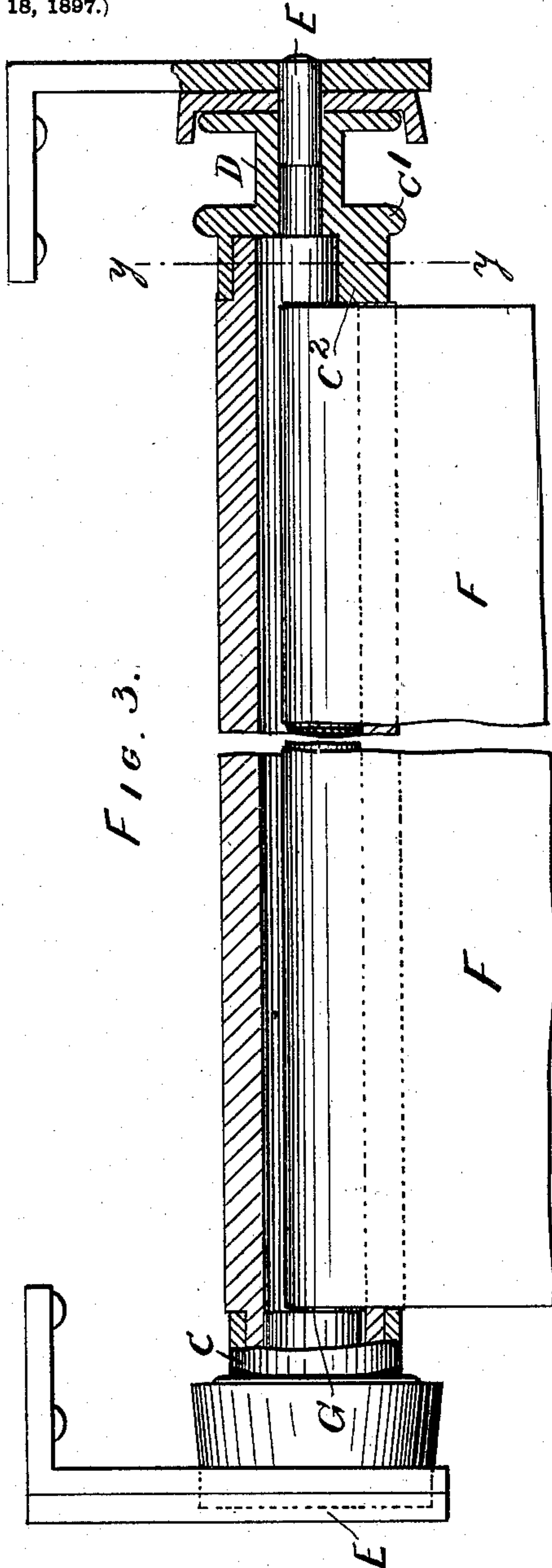
ROLLER FOR WINDOW BLINDS, SUNSHADES, &c.

(Application filed Dec. 18, 1897.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM CLARK KINCAID, OF CORRIE BANK, SCOTLAND.

ROLLER FOR WINDOW-BLINDS, SUNSHADES, &c.

SPECIFICATION forming part of Letters Patent No. 638,969, dated December 12, 1899.

Application filed December 18, 1897. Serial No. 662,392. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM CLARK KINCAID, clerk, a citizen of the United Kingdom of Great Britain and Ireland, residing at Corrie Bank, Greenock, in the county of Renfrew, Scotland, have invented certain new and useful Improvements in Rollers for Window-Blinds, Sunshades, and the Like, (which have been patented in Great Britain by Letters Patent dated March 11, 1897, No. 6,388,) of which the following is a specification.

This invention, which relates to rollers for window-blinds, sunshades, and the like, has for its object to obviate the risk of tearing and other disadvantages attendant on the use of tacks for securing the blind to its roller, while providing a simple mode of attachment which permits of the ready removal and replacing of the blind and insures its hanging quite straight.

The invention is illustrated by the accompanying drawings.

Figure 1 is an elevation, and Fig. 2 a cross-section on the line $x x$, of the roller, showing a blind attached thereto. Fig. 3 is an elevation, partly in section, and Fig. 4 a cross-section on the line $y y$, showing the roller as provided with the usual end pieces and centers for attachment to the window-frame.

The improved roller is made in the form of a tube A, of wood, paper, metal, or other material, the hollow center being round or of any other suitable form, and the tube A has a slit or slot B extending throughout its length and fitted with end pieces or caps C C', provided with the usual cord-pulley D and centers E for attachment to the window-frame. The blind F is made with a hem or loop at its

upper end, into which is inserted a lath or rod G. The top end of the blind F containing this lath or rod is slipped into the tubular roller A, while the blind F passes through the slot B in the roller A and hangs freely therefrom, and the end caps C C' are fitted in place. The blind F may then be rolled up on the external surface of the roller A. In removing the blind F from the roller A the end cap C', which, as shown at Fig. 4, is provided with a key-piece C², which enters the slot B and serves to turn the roller A, is taken off and the lath G, carrying the blind F, is drawn out of the tube A.

The invention is also applicable to such articles as deck-chairs and the like, in which a length of fabric is stretched between rollers or bars, the cross-bars being fitted with the slotted rollers above described, from which the fabric depends, as in the case of a blind.

Having now described the invention, what I claim, and desire to secure by Letters Patent, is—

The combination in a shade-roller, of a tube A having a longitudinal slot B, a shade F extending through said slot, rod G secured to the shade and held in tube A, end caps C, C', cap C' having a key-piece C² fitting into the end of slot B, and a cord-pulley D, the cord-pulley and cap C' being held from turning on the tube by said key-piece C².

Signed at Glasgow, in the county of Lanark, Scotland, this 7th day of December, 1897.

WILLIAM CLARK KINCAID.

Witnesses:

WALLACE FAIRWEATHER,
JNO. ARMSTRONG, Junr.