

No. 880,234.

PATENTED FEB. 25, 1908.

D. C. McVAIL & S. MECHAN.

CASTER.

APPLICATION FILED AUG. 31, 1907.

FIG: 1.

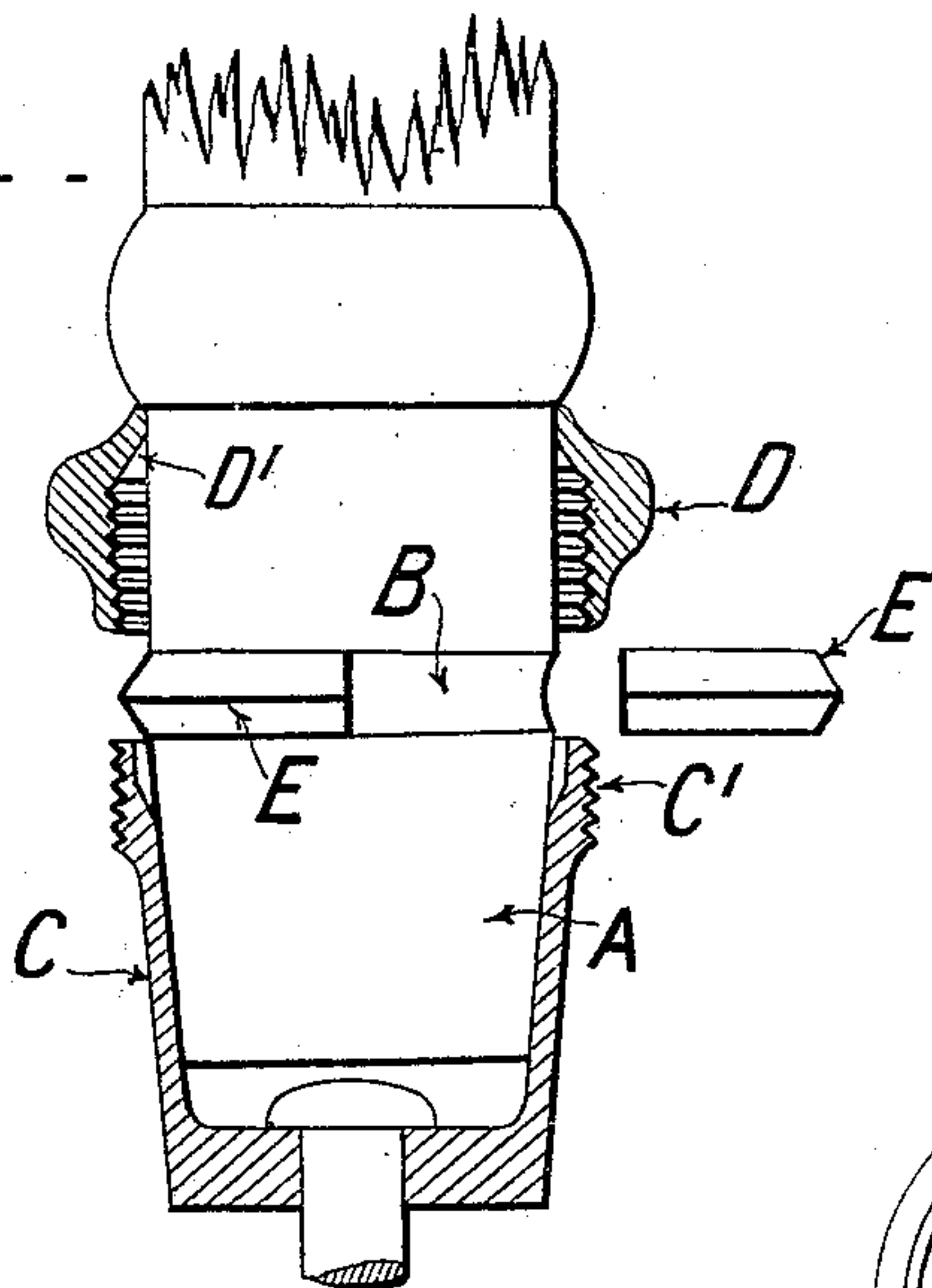


FIG: 2.

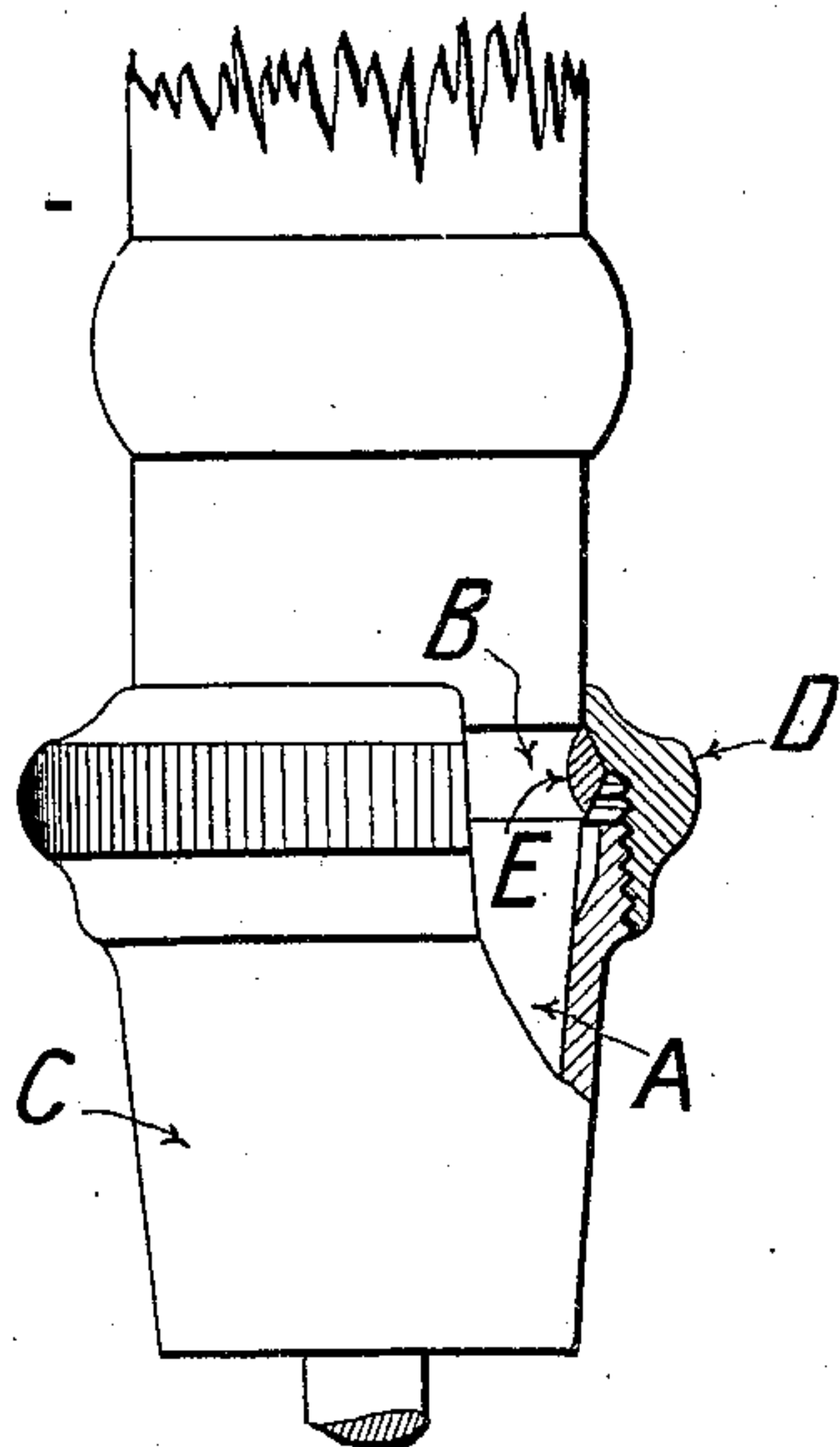
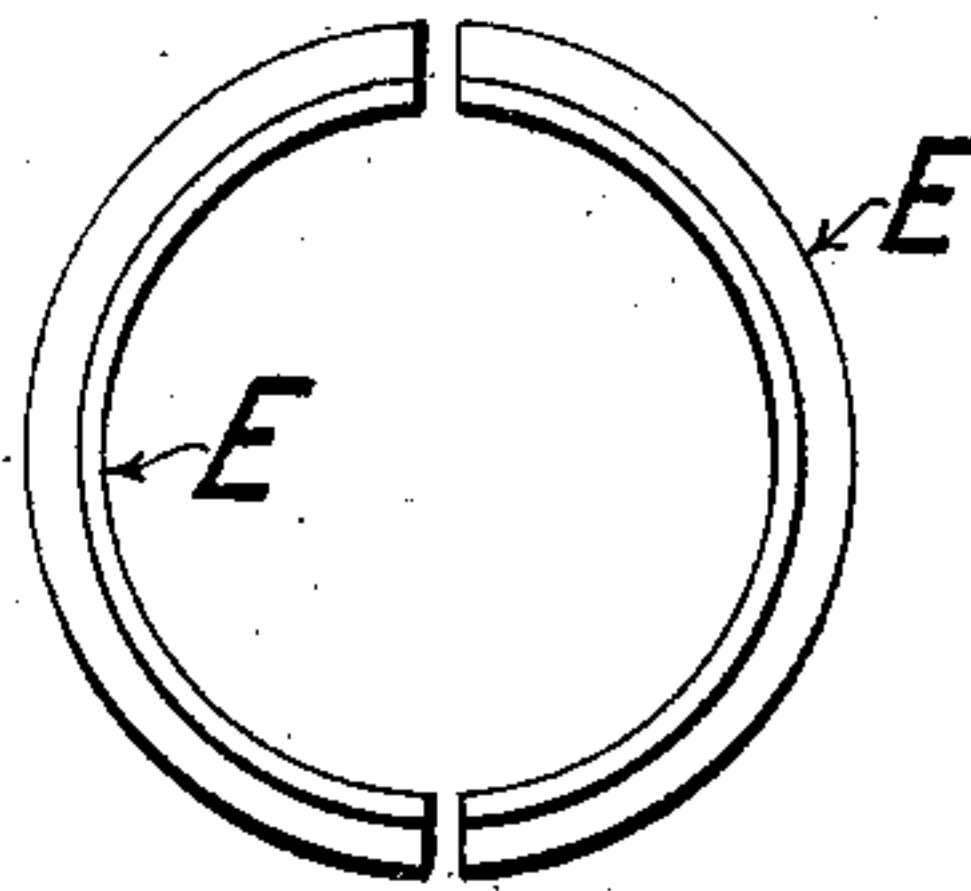


FIG: 3.



Witnesses

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UNITED STATES PATENT OFFICE.

DAVID C. McVAIL AND SAMUEL MECHAN, OF GLASGOW, SCOTLAND.

CASTER.

No. 880,234.

Specification of Letters Patent.

Patented Feb. 25, 1908.

Application filed August 31, 1907. Serial No. 390,853.

To all whom it may concern:

Be it known that we, DAVID CALDWELL McVAIL, residing at 3 St. James' Terrace, Hillhead, Glasgow, in the county of Lanark, Scotland, and SAMUEL MECHAN, residing at 22 Kingsborough Gardens, Glasgow, in the county of Lanark, Scotland, subjects of the King of Great Britain and Ireland, have invented new and useful Improvements in or Connected with Furniture-Casters, for which we have made applications for patents in Great Britain, No. 21,302, bearing date September 26, 1906, and in Germany under date of December 22, 1906, of which the following is a specification.

This invention, which refers to means for securing furniture casters, relates to a class of fitting having a socket which is arranged to fit over the terminal end of a wooden leg or member to which the fitting is to be secured, especially designed for application to members where, owing to constructional conditions, all the component parts of the fitting have to be applied over one end of the member, and, further, to dispense with the use of wood screws, nails and the like. In caster fittings of this class it has already been proposed to adopt a divided screwed ring embedded in a circumferential groove formed on the end of the wooden member the socket being internally threaded so as to screw onto the divided ring. In this form it will be recognized that considerable frictional resistance has to be overcome when screwing the socket onto the ring, in consequence of the bearing contact between the interior of the socket and surface of the wooden member, besides involving the undesirable features incident to the adoption of divided screwed rings.

The object of this invention is to produce an improved caster fitting of the divided ring type in which the caster socket is fixed without being rotated while subjected to an end pull under the action of a tightening element working against a smooth projecting metallic bearing formed by the divided ring.

In the accompanying drawing Figure 1, is a part sectional elevation of a wooden member with the elements of a caster fitting as

constructed in accordance with this invention in position before being fixed; and Fig. 2, shows the fitting when fixed. Fig. 3, is a plan of the divided ring.

In the drawing, A, designates the terminal end of a wooden member, to which the fitting is to be applied, formed with a circumferential groove, B; and, C, is a socket having an exteriorly screw threaded head, C¹, adapted to receive an interiorly screw threaded cap, D. The cap, D, is bored so that it may be passed over the terminal end of the wooden member, A, and is formed with a seating, D¹, adapted, as will be subsequently explained, to bear upon the projecting edge of a plain metallic ring, E, which, in the form illustrated, is divided into two segments.

In applying the fitting, the cap, D, is first passed onto the wooden member, the socket, C, being next placed into position, as shown at Fig. 1. The segments of the divided ring, E, are then introduced into the circumferential groove, B, and the cap, D, is brought down and screwed onto the head, C¹, of the socket, in the action of which the seating, D¹, takes up a bearing upon the projecting edge of the ring, E, and causes the socket, C, to be tightly drawn onto the terminal end of the wooden member, A. In some cases it may be convenient to adopt a split instead of a segmentally divided ring.

What we claim as our invention, and desire to secure by Letters Patent, is:

A caster fitting, for application to the terminal end of a wooden member formed with a circumferential groove, consisting of a socket having an exteriorly screw threaded head in combination with a plain divided ring and an interiorly screw threaded cap formed with a seating, for the purposes set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

D. C. McVAIL,
SAMUEL MECHAN.

Witnesses:

J. ALFRED BREWER,
ROBERT GEORGE BLACK.