No. 791,725. PATENTED JUNE 6, 1905.

C. SANSOM.

DIVIDERS.

APPLICATION FILED DEC. 8, 1904.

fig. 1.

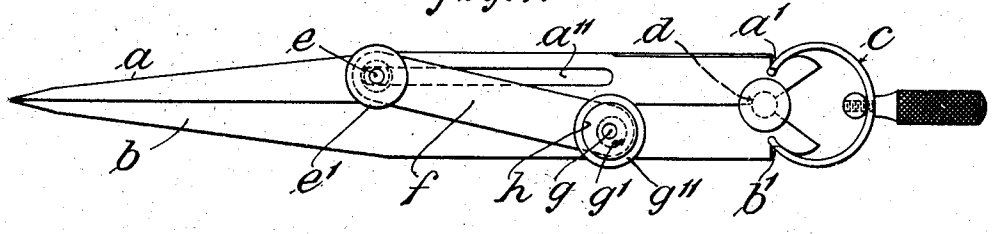


fig. 2.

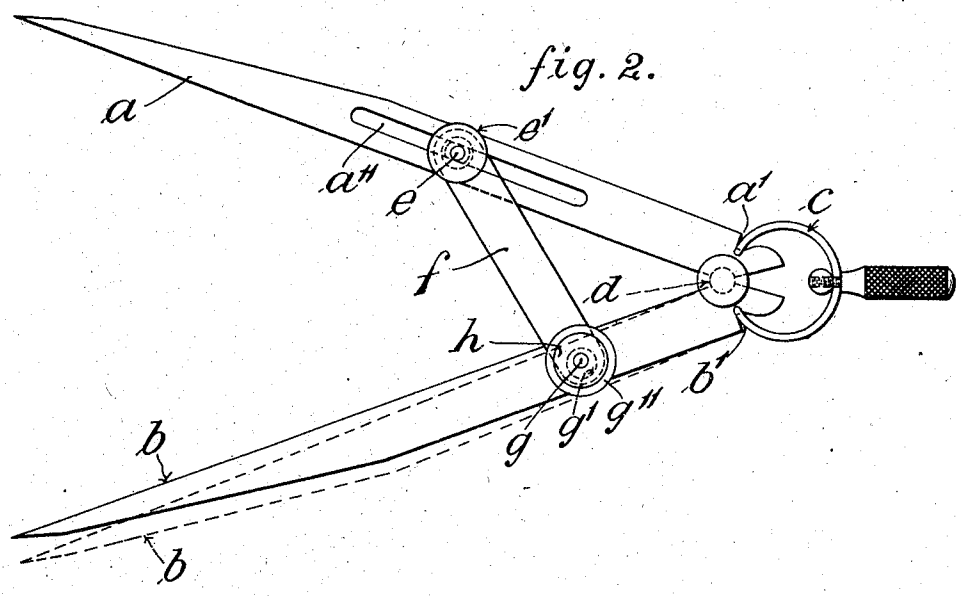
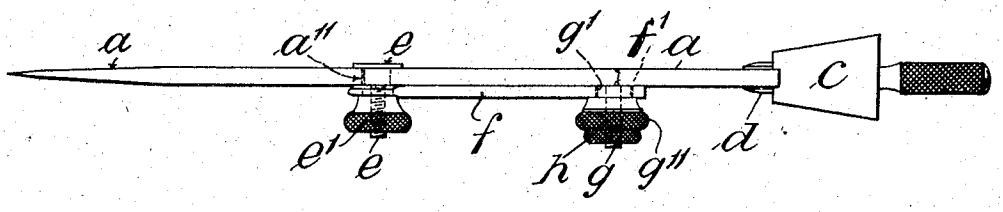


fig. 3.



Witnesses.
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No. 791,725. Patented June 6, 1905.

UNITED STATES PATENT OFFICE.

CHARLES SANSOM, OF BARROW-IN-FURNESS, ENGLAND.

DIVIDERS.

SPECIFICATION forming part of Letters Patent No. 791,725, dated June 6, 1905.

Application filed December 8, 1904. Serial No. 235,934.

To all whom it may concern:

Be it known that I, CHARLES SANSOM, a subject of King Edward VII of Great Britain, and a resident of Barrow-in-Furness, in the county of Lancaster, England, have invented certain new and useful Improvements in Dividers, of which the following description, in connection with the accompanying drawings, is a specification.

This invention has reference to dividers, compasses, calipers, or mathematical or other measuring or marking instruments, and particularly to those instruments provided with means for securing the two legs at the angle desired.

The object of my invention in such instruments is to provide novel means whereby after the legs have been roughly set they may be adjusted—that is to say, the angle formed by them altered by very small amounts—which will enable the instruments to be employed for more accurate work than could otherwise be done.

The novel features of my invention will be fully described in the subjoined specification and particularly pointed out in the following claims.

Figure 1 is a plan view of an instrument having my invention applied thereto, the instrument being shown closed. Fig. 2 is a similar view to Fig. 1, but shows the legs of the instrument opened out; and Fig. 3 is an edge view of the instrument.

In the drawings, letter *a* represents one leg of the instrument, and *b* the other leg. In this instance the two legs are shown pivoted together by a curved spring *c*, engaging in recesses *a'* *b'*, respectively, in said legs. Between the legs is placed a loose pivot *d* in such position that the action of the spring *c* is to normally hold the free ends of the legs at the widest angle it is intended they shall occupy. Instead of being pivoted together, as shown, the legs may be pivoted in any convenient and well-known manner.

The leg *a* is slotted longitudinally at *a''*, and in this slot slides a bolt *e*, passing through one end of the link *f* and provided with a clamping-nut *e'*, by which said end of the link *f* may be secured to the leg *a* at any point within the limit of the slot *a''*. Instead of the slot *a''* being formed in the leg *a* it may be formed in a plate attached thereto. The opposite end of the link *f* is passed over the fixed bolt or stud *g*, projecting from the leg *b*. This end of the link is provided with an opening *f''*, in which works a cam or eccentric *g'*, formed on the collar *g''*, confined on the stud or bolt *g* by means of a nut *h*, but rotatable thereon.

The link *f* and sliding bolt *e* afford a means of roughly adjusting the legs *a* and *b* to the measurement required, and on the nut *e'* being tightened the legs are secured in the desired relative position. Should the legs not have been set at exactly the measurement required, the cam or eccentric *g'* affords a means of decreasing or increasing the effective length of the link *f* by very small amounts, the extreme amount of adjustment permissible being determined by the eccentricity of the cam *g'*.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an instrument of the character described, the combination of two legs pivoted together, one of said legs being provided with a longitudinal slot, a link, a bolt and clamping-nut connecting one end of the link to the leg having the longitudinal slot, and a rotatable cam or eccentric connecting the other end of the link with the other of said legs.

2. A divider comprising two legs or members pivotally connected together, one of said legs having a longitudinal slot, and the other of said legs being provided with a fixed pin, a link having a bolt and clamping-nut connecting one end thereof with the leg having the longitudinal slot, a cam or eccentric carried by the fixed pin on the other leg and connecting the other end of the link therewith, and means for rotating the cam or pin.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES SANSOM.

Witnesses:

FRANK L. ERVIN,

FREDK. HAMMOND.