

No. 609,912.

Patented Aug. 30, 1898.

W. SENIOR.

APPARATUS FOR STRIPPING FLATS OF CARDING ENGINES.

(Application filed Dec. 10, 1897.)

(No Model.)

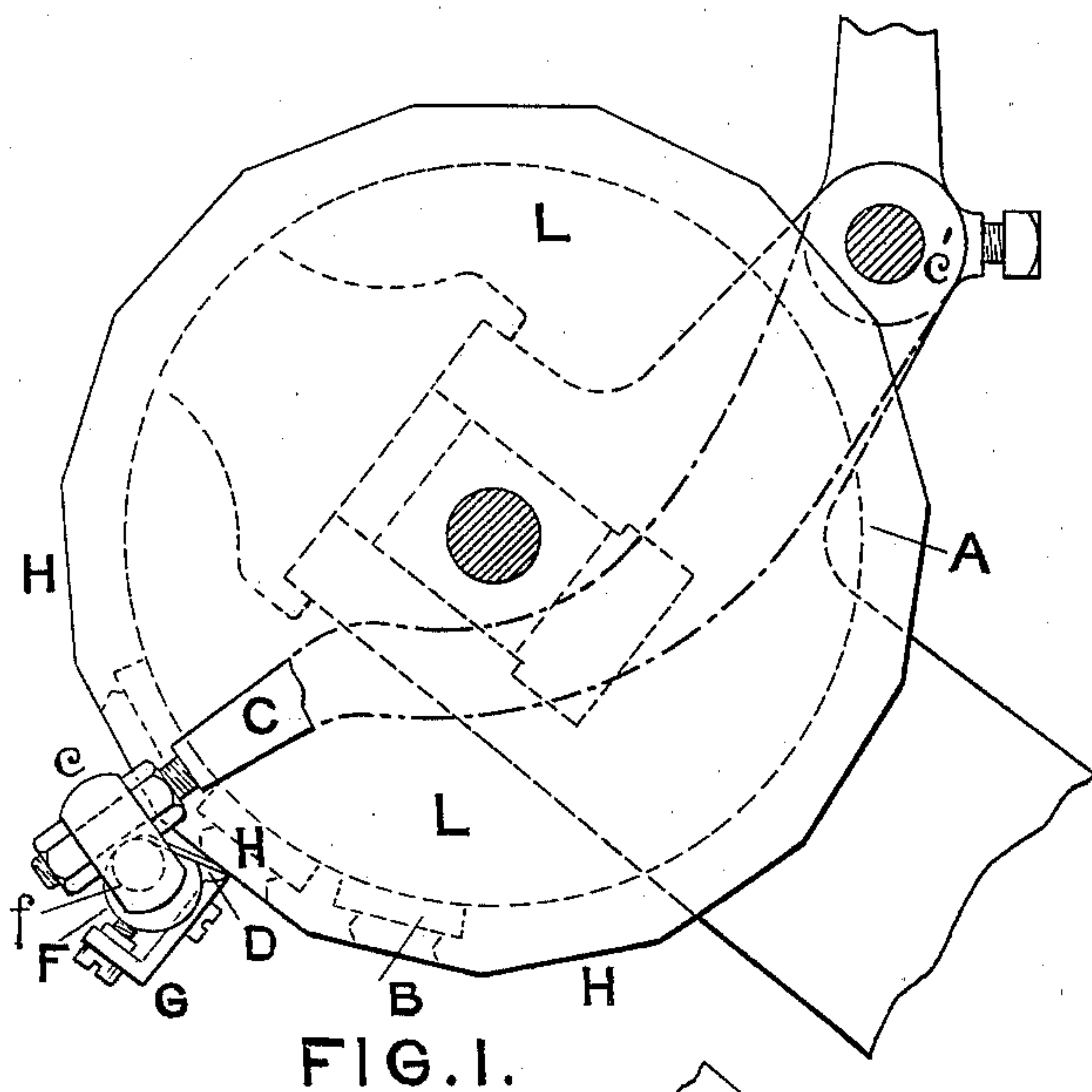


FIG. 1.

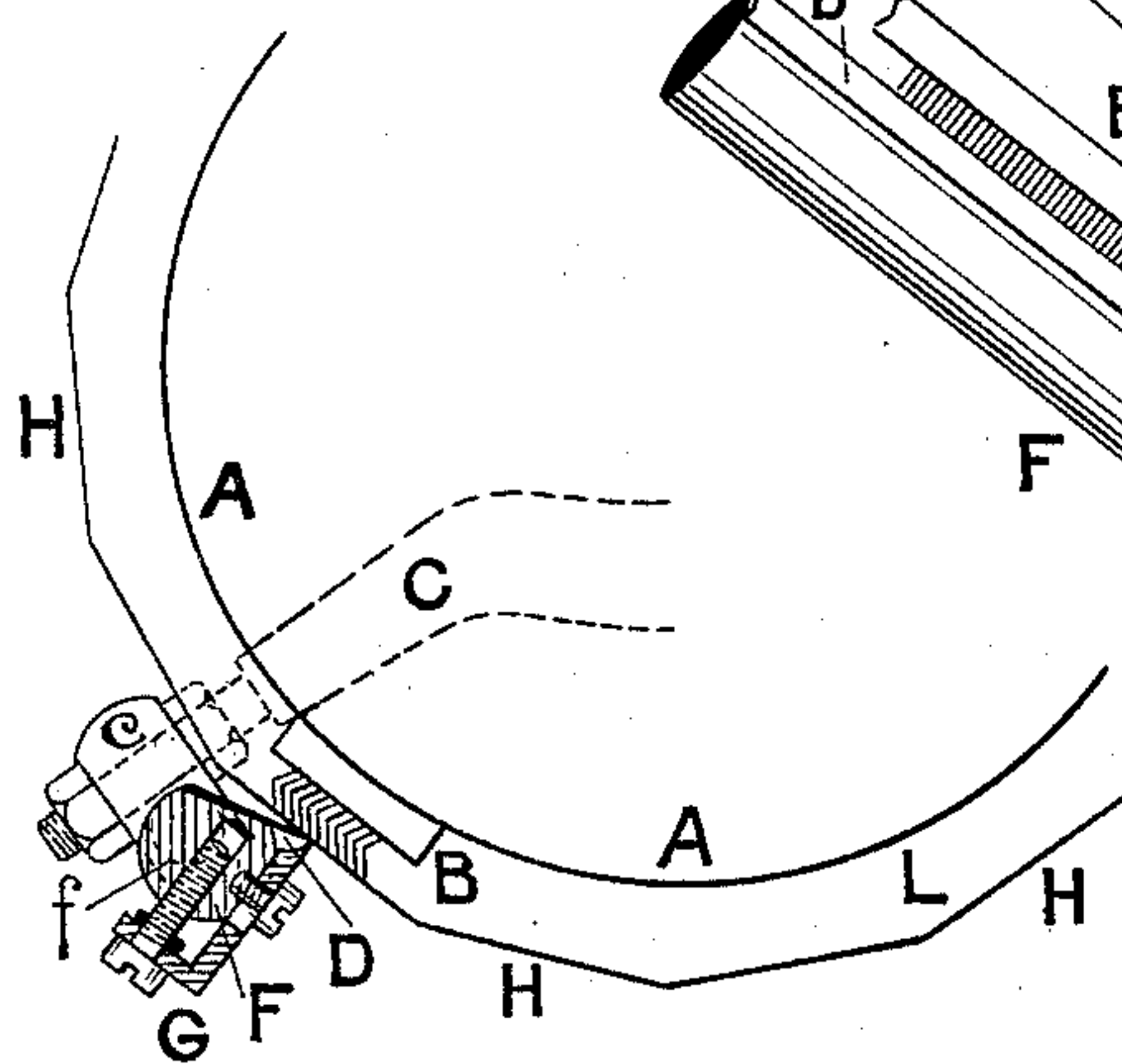


FIG. 3.

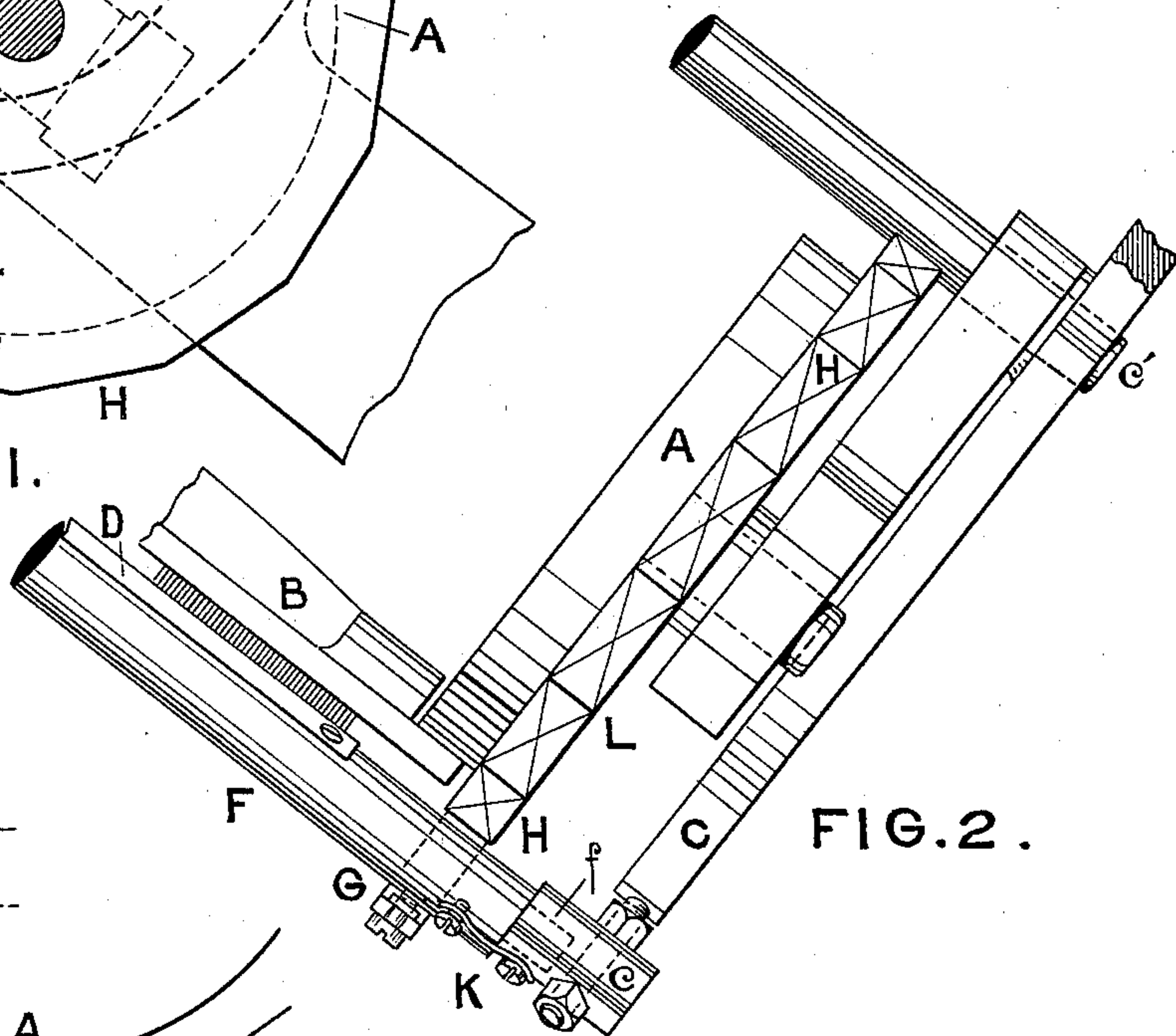


FIG. 2.

WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM SENIOR, OF PENDLETON, ENGLAND, ASSIGNOR TO JAMES WILLIAMS, OF SALFORD, ENGLAND.

APPARATUS FOR STRIPPING FLATS OF CARDING-ENGINES.

SPECIFICATION forming part of Letters Patent No. 609,912, dated August 30, 1898.

Application filed December 10, 1897. Serial No. 661,440. (No model.) Patented in England May 22, 1895, No. 10,100.

To all whom it may concern:

Be it known that I, WILLIAM SENIOR, mechanic, a subject of the Queen of Great Britain, residing at Pendleton, in the county of Lancaster, England, have invented certain new and useful Improvements in Apparatus for Stripping the Flats of Carding-Engines, (for which I have obtained Letters Patent in England, dated May 22, 1895, No. 10,100,) of which the following is a specification.

This invention relates to improvements in the apparatus employed for stripping the waste fibers from the revolving flats of carding-engines employed in the preparation of cotton or other fibers preparatory to spinning. The apparatus usually employed for this purpose consists of a stripping-comb mounted at the free ends of two arms or levers which oscillate on a fulcrum placed about level with the axis of the pulley or drum around which the said "flats" pass, but at the side of the pulley or drum farthest from the flat which is being stripped, and consequently the stripping-comb moves in a curve of which the said fulcrum is the center, and there is a tendency to miss the central portion of the surface of the flat and to bend the wires at the top and bottom edges thereof. This invention is intended to remedy this defect and to cause the stripping-comb to rise and fall in a right line corresponding exactly with the face of the flat.

It consists, essentially, in mounting the stripping-comb upon arms or levers which carry it, so as to be capable of a swiveling movement, and providing a shaped disk or cam to direct the movement of the comb in a line parallel with the face of the flat.

It will be fully described with reference to the accompanying drawings, in which sufficient of a carding-engine is shown to illustrate the invention.

Figure 1 is a side elevation; Fig. 2, a plan; Fig. 3, a sectional end elevation.

The pulley or drum A, around which the flats pass, the flats B, the oscillating arms or levers C, which carry the stripping-comb, and the stripping-comb D are all of ordinary construction.

The comb-bar F, to which the stripping-

comb D is secured, instead of being rigidly attached to the oscillating arms C, is pivoted thereto at both ends to permit of the stripping-comb D swiveling slightly as it rises and falls, so as to keep the stripping edge always in contact with the face of the flat B under operation or to cause it to travel up and down in a path parallel to the face of the flat.

At each end of the comb-bar F, I form an eccentric stud or pivot *f*, which fits into a socket or bearing *c* at the end of the oscillating arm C, which allows of the swiveling or rocking movement to the comb-bar independent of the movement it receives with the pivoted arms or levers C about their pivots *c*.

At or near each end of the comb-bar F is fitted a lug or bracket G, which bears against a surface H, placed in a suitable position to direct the stripping edge of the comb D in a path parallel to the face of the flat. A spring K holds the bracket G against the surface H, which may be flat or concave to correspond with the surface of the flat B.

The surfaces H, to correspond with the successive flats B, are formed on the periphery of a disk or plate L, which rotates with the chain of flats over the pulley or drum A, advancing a fresh surface H with each flat B as the flats travel forward. Thus as the stripping-comb D rises and falls the bracket G is pressed against the surface H by the spring K and the bar swiveling on the end pivots *f* in the sockets *c*. The stripping edge of the comb always moves in a plane parallel to the working face of the flat.

What I claim as my invention, and desire to protect by Letters Patent, is—

1. Apparatus for stripping the revolving flats of carding-engines comprising a swiveling comb-bar, provided with pivots at both ends, oscillating arms for actuating the comb-bar to which the bar is pivoted, an adjustable bracket attached to the comb-bar to engage a guiding-surface and a surface placed in a suitable position to direct the movement of the stripping edge of the comb in a plane parallel to the face of the flat, substantially as described.

2. In a carding-engine the combination with the flats B, the drum A over which the flats

travel, and the oscillating stripping - arms C pivoted at *c*, of the stripping-comb D, the comb-bar F pivoted to the oscillating arms C so as to be capable of swiveling, the brackets G affixed to the comb-bar F, engaging the guiding-surface H and the disk L provided with surfaces H which cause the stripping edge of the comb D to move in a plane parallel to the working face of the flat.

3. Apparatus for stripping the revolving flats of carding-engines comprising the oscillating arms C pivoted at *c'*, the swiveling comb-bar F, pivoted to the arms C, the stripping-comb D affixed to the swiveling comb-bar, the guiding-bracket G secured to the comb-bar, resting against the surfaces H, and the disk L rotating as the flats B move forward, carrying the surfaces H upon its periphery, substantially as and for the purpose described.

4. The combination with a stripping-comb and arms or levers C upon which it is mounted, so as to be capable of a swiveling motion, of an

adjustable bracket, moving over and working against a surface parallel with the working surface of the flat and a surface H parallel with the working surface of the flats to engage the adjustable bracket.

5. In apparatus for stripping the revolving flats of carding-engines, the combination with an oscillating comb and comb-bar provided with an adjustable bracket at either end, adapted to be guided on the surface H of a rotating disk provided with surfaces parallel to the face of the flat-wires when in position to be stripped to direct the path of the stripping edge of the comb, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 22d day of November, 1897.

W. SENIOR.

Witnesses:

J. OWDEN O'BRIEN,
R. OVENDALE.