

(No Model.)

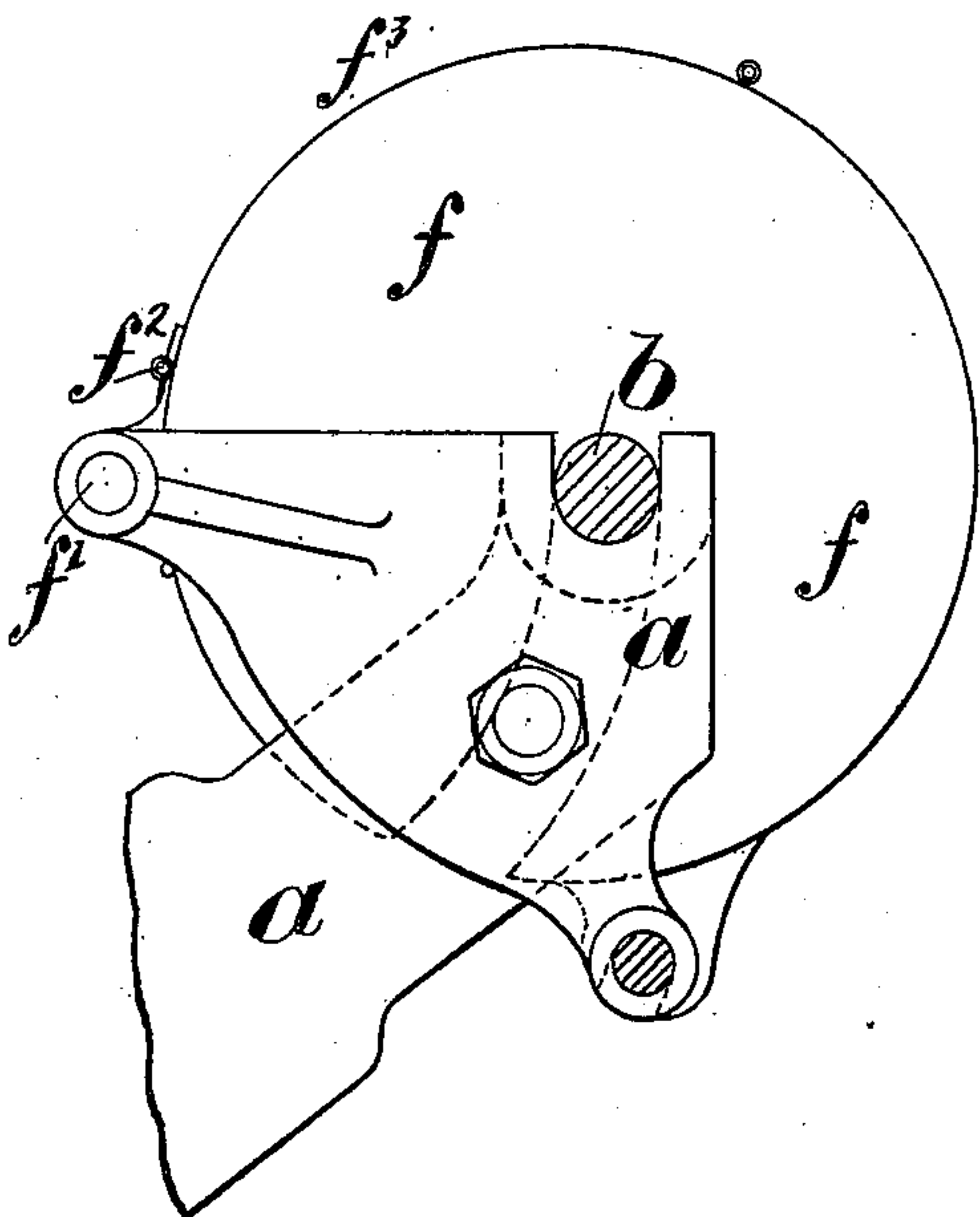
G. & E. ASHWORTH.

STRIPPING MECHANISM FOR CARDING ENGINES.

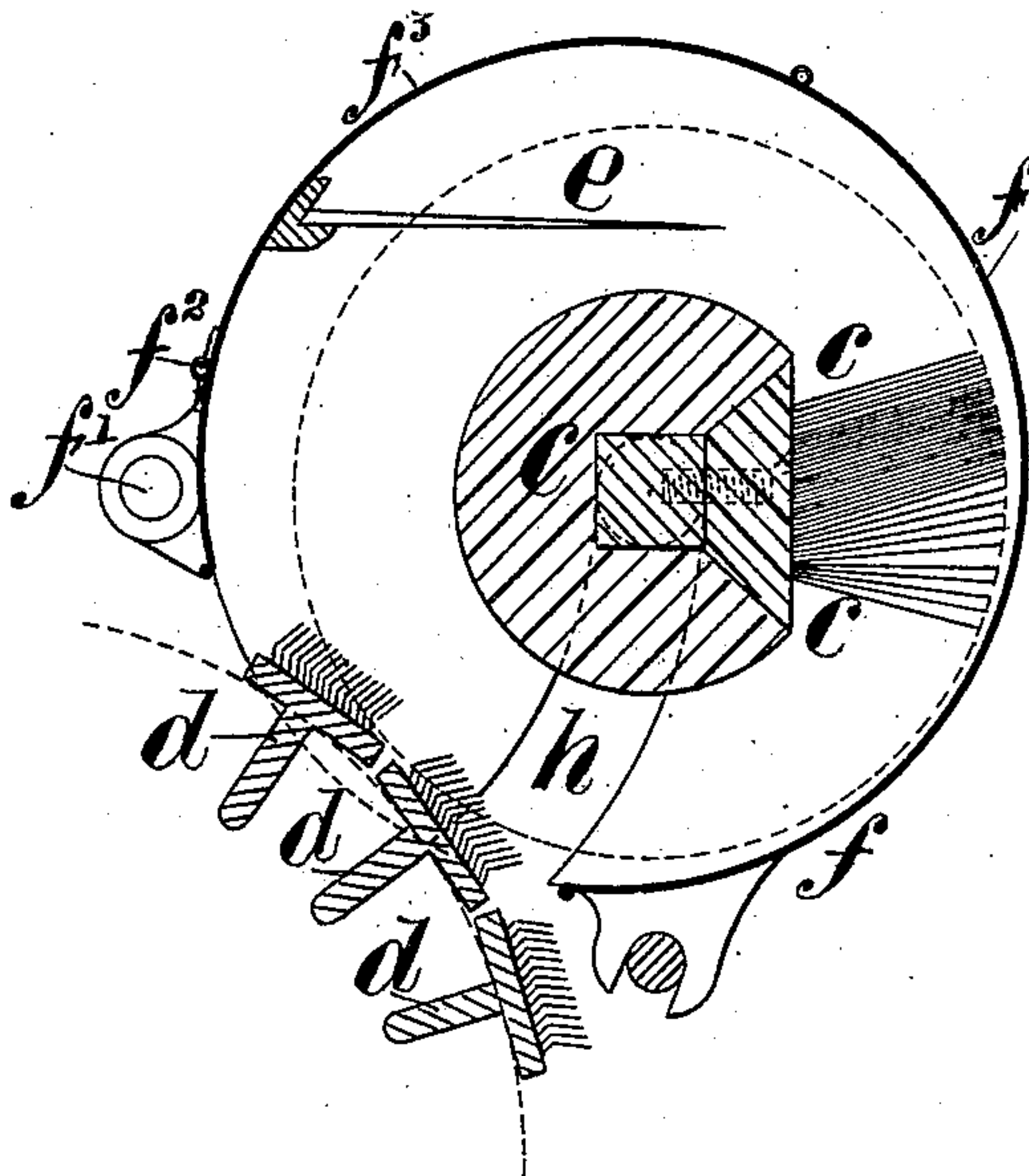
No. 398,019.

Patented Feb. 19, 1889.

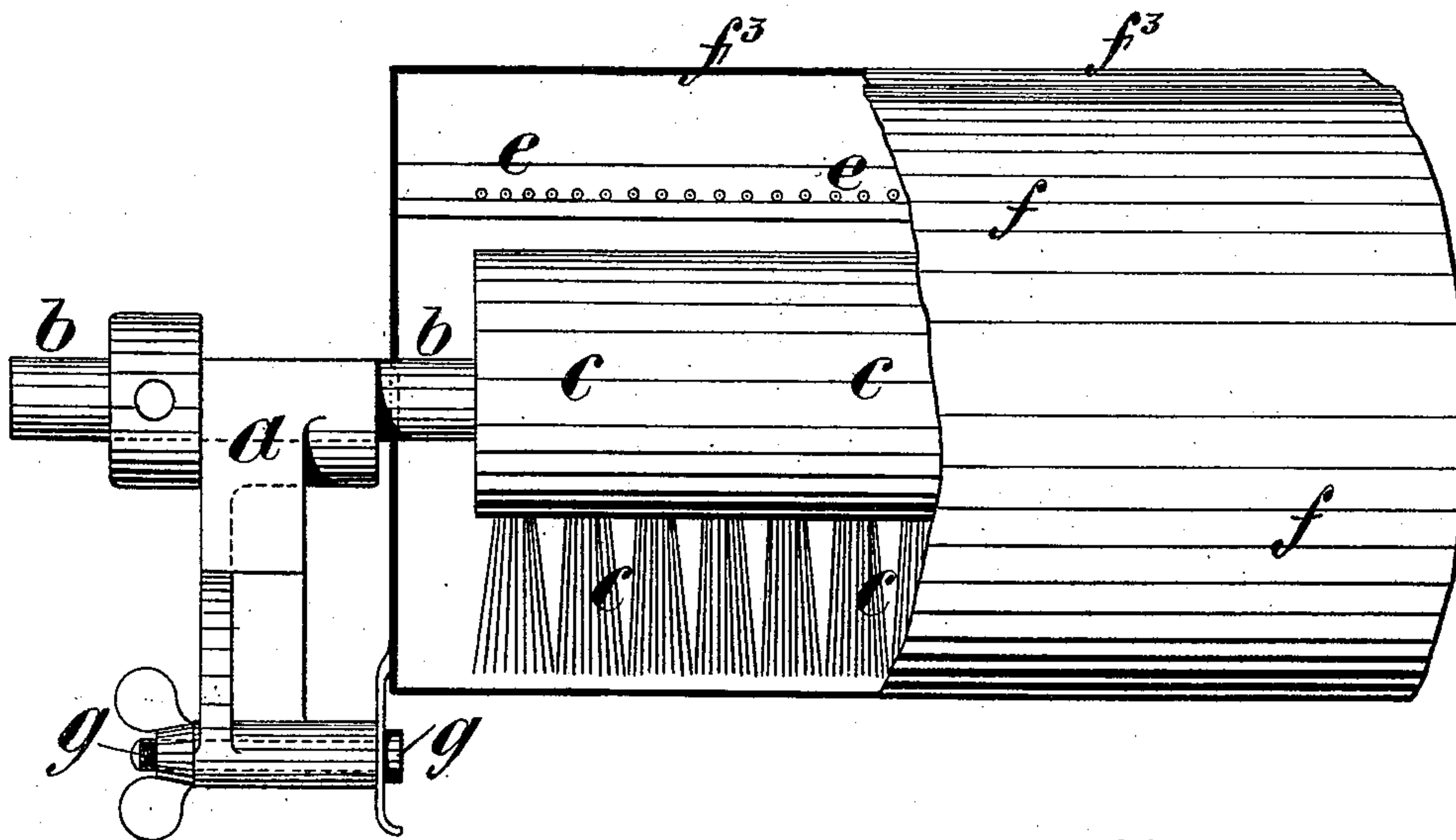
F I G. 1.



F I G. 2.



F I G. 3.



INVENTORS.

George Ashworth,
and Elijah Ashworth.

By their Attys. *Horron and Horron*

Witnesses.

Geo. A. Crane

R. Reynolds

UNITED STATES PATENT OFFICE.

GEORGE ASHWORTH AND ELIJAH ASHWORTH, OF MANCHESTER, COUNTY OF LANCASTER, ENGLAND.

STRIPPING MECHANISM FOR CARDING-ENGINES.

SPECIFICATION forming part of Letters Patent No. 398,019, dated February 19, 1889.

Application filed March 16, 1888. Serial No. 267,384. (No model.) Patented in England May 15, 1883, No. 2,432.

To all whom it may concern:

Be it known that we, GEORGE ASHWORTH and ELIJAH ASHWORTH, engineers, subjects of the Queen of Great Britain and Ireland, and
5 residing at Manchester, county of Lancaster, England, have invented an Improved Stripping Mechanism for Carding-Engines, (for which we obtained a patent in Great Britain, No. 2,432, dated May 15, 1883,) of which the
10 following is a specification.

Our invention relates to means for brushing the traveling flats of carding-engines. We mount a brush-shaft to revolve in brackets fixed to the carding-engine framing, the
15 said shaft carrying a brush which at each revolution sweeps across the flat which at the time is within the range of action of the brush. Fibers removed from the flats are delivered by the brush to hackles, which are mounted
20 so that they can be turned away from the brush when it is desirable to remove the accumulation of fiber.

Our invention will be best described with reference to the accompanying drawings.

25 Figure 1 is an end view of the casing in which the brush revolves and shows the manner in which the casing and the brush-shaft are mounted. Fig. 2 is a cross-section of the apparatus and several flats. Fig. 3 is a front
30 view of the apparatus, partly broken away.

In Figs. 1 and 2, *a* is one of two brackets which are fixed to the side framing of the carding-engine—one on each side of the engine. The said brackets carry a shaft, *b*, upon
35 which is fixed the brush *c*, (seen in Figs. 2 and 3,) which brush is preferably made of fine hardened and tempered steel wire. At each revolution of the shaft the brush sweeps over the flats *d d*, which are successively brought
40 within the range of action of the brush by the ordinary traveling movement of the chain of flats. As the brush passes over the flat, the wires of the brush penetrate between the dents of the wire card of the flat and remove
45 accumulations of fiber, and also brush out finer dust or fluff. The fibers adhering to the

brush are removed by hackles *e*, which are fixed close together in a line extending the length of the brush. The brush is inclosed within a cylindrical casing, *f*, which is hinged
50 at *f'*, and the said hackles are fixed to a part, *f''*, of the casing, which is hinged at *f''*, so that it can be opened like a door, in the manner indicated by the dotted lines in Fig. 3. When so opened, the hackles are withdrawn
55 from within the casing, and the fiber which has accumulated upon the hackles can then be readily removed. The whole of the casing can also be turned upon the hinge-pin *f'* as a pivot, so as to expose the brush, the ends
60 of the casing being formed with curved slots, so as to clear the shaft, as indicated at *h* in Fig. 2. When the casing is turned down into its ordinary position, it is secured at each
65 end by means of a bolt and thumb-nut, *g*.

The hackles *e* may be situated in any other suitable position around the axis of the shaft, so that their points penetrate the brush at each revolution and remove the accumulated
70 fibers. The brush may be made of any suitable material. In some cases we apply more than one brush around the shaft, so that the flat is brushed more than once at each revolution of the brush-shaft.

Having now described our invention, we de-
75 clare that we claim—

The combination of the side framing of a carding-engine, brackets *a*, fixed thereon, and the shaft mounted to revolve in the brackets and carrying a brush, *c*, with a casing, *f*,
80 hinged at one side to expose the brush, and a hinged door to the casing carrying hackles *e* to clear the brush, all substantially as described.

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

GEO. ASHWORTH.
ELIJAH ASHWORTH.

Witnesses:

DAVID FULTON,
JOSHUA ENTWISLE.