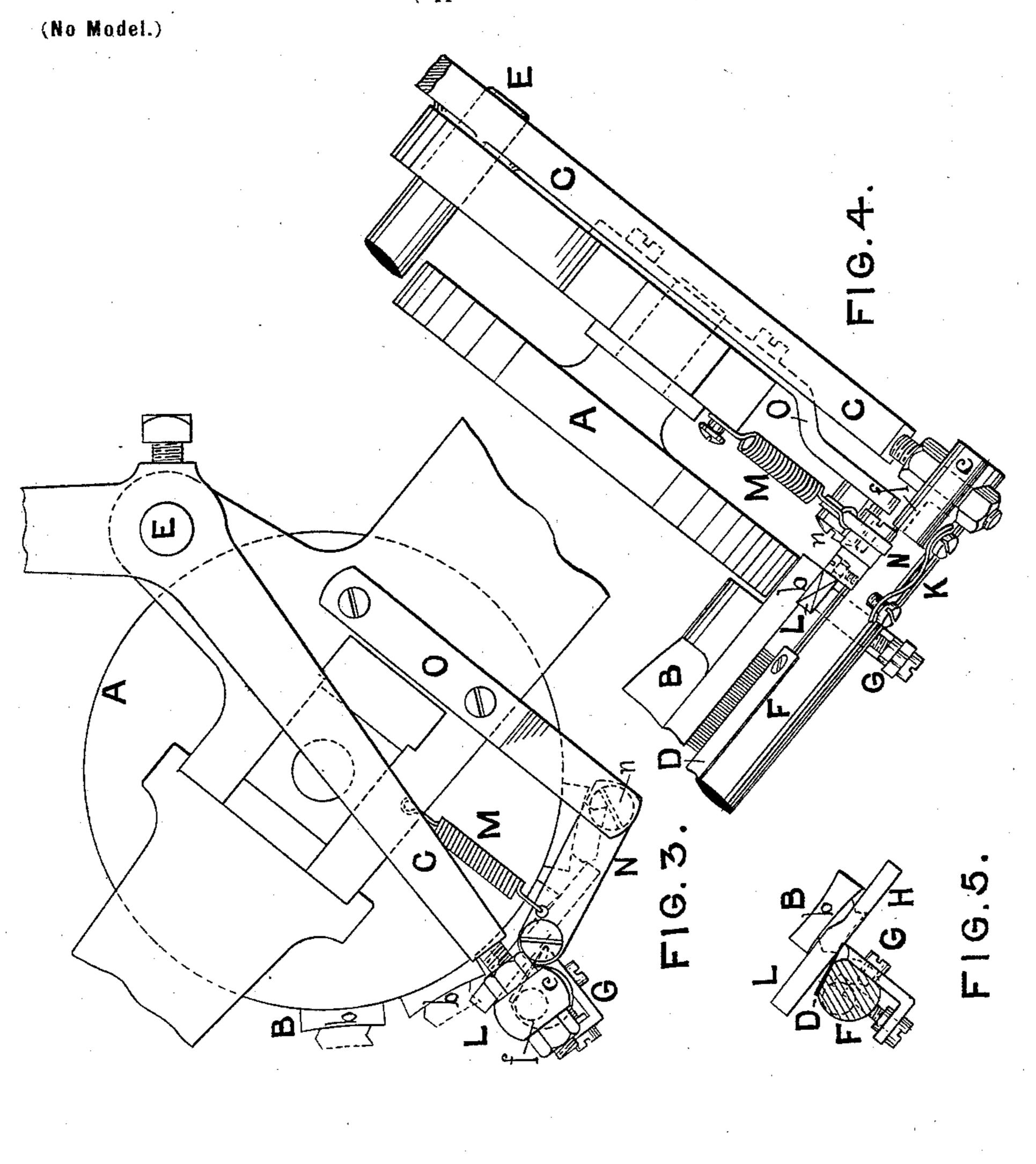
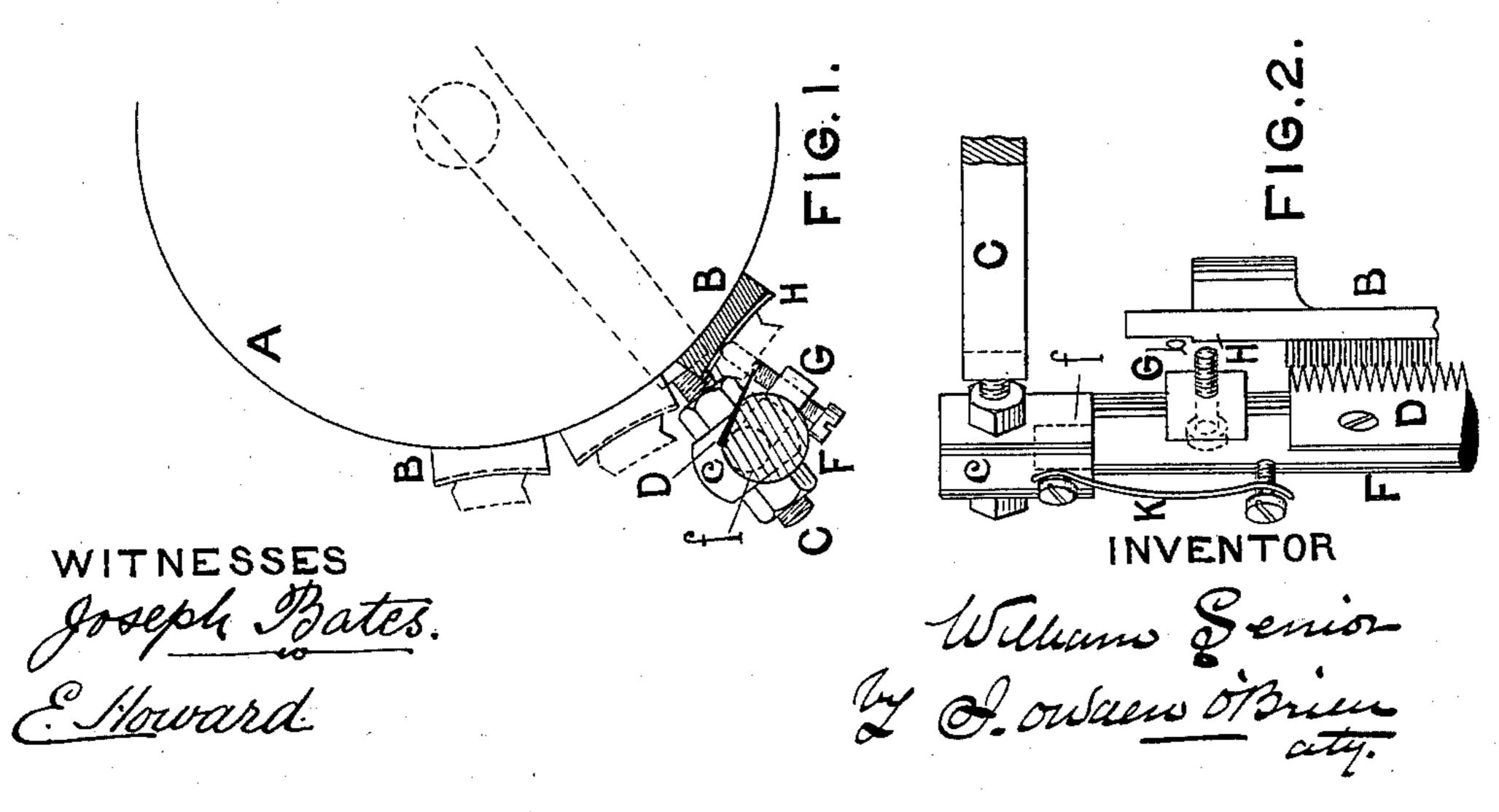
W. SENIOR.

APPARATUS FOR STRIPPING FLATS OF CARDING ENGINES.

(Application filed Dec. 10, 1897.)





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. 609,911, dated August 30, 1898.

Application filed December 10, 1897. Serial No. 661,439. (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 5 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

ro which the following is a specification.

This invention relates to improvements in apparatus for stripping the surface of the wires of revolving flats of carding-engines. The apparatus usually employed for this pur-15 pose 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 20 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 25 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.

This invention consists, essentially, in mounting the stripping-comb bar on the arms or levers which carry it, so as to be capable of a swiveling motion, with adjustable pieces moving over or against a flat surface parallel 35 with the face of the wires of the flat while be-

ing stripped.

It will be fully described with reference to the accompanying drawings, in which part of the flat-stripping apparatus of a carding-en-40 gine sufficient to illustrate the invention is shown.

Figure 1 is a sectional end elevation; Fig. 2, a plan of same; Fig. 3, an end elevation showing a modification; Fig. 4, a plan of Fig. 3; 45 Fig. 5, a section of parts of same in detail.

The pulley A, around which the flats pass, the flats B, the oscillating arm C, by which the comb D and comb-bar F are actuated, and fulcrum E of the oscillating arm are of 50 any ordinary construction.

The comb-bar F, to which the stripping- | to protect by Letters Patent, is—

comb D is affixed, is pivoted to the ends of the arms or levers C, by which it is carried, in such a way that the stripping-comb D can swivel somewhat as it is moved to and fro 55 across the face of the flat to cause its working edge always to travel in a path parallel with the face of the flat B being stripped.

At each end of the comb-bar F is formed or affixed an eccentric pivot f, which fits into a 60 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 arm or levers C about their pivots E. 65

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 or weight holds the bracket G against the surface H, which may be flat or concave to correspond with the surface of the flat B.

The level surface H, against which the ad- 75 justable screw or bracket G bears, may be made upon any suitable body, such as the end of the flat B, as shown in Figs. 1 and 2, the surface H being ground or placed parallel with the face of the wires.

Instead of forming a flat surface H upon the flat B itself it may be formed upon a body or block L, against which the working surface b on the ends of the flats may bear, the block L being so shaped as to compensate for 85 the formation and inclination of the working surface b and cause the comb D to move in a path parallel with the face of the wires. The block L is held in position against the concave working surface b of the flat B by a 90 spring M or weight and is held or carried by an oscillating arm N, pivoted at n to the fixed bracket O.

The path of the stripping-comb D may be varied in any degree to suit the surface of the 95 wires of the flat or to remove it from the flat by altering the contour of the surface H, against which the screw or bracket G bears.

Each successive flat B as it is rotated by the disk or pulley A passes under the block L. 100

What I claim as my invention, and desire

1. Apparatus for stripping the revolving flats of carding-engines comprising a comb, a comb-bar to which the comb is attached, bearing-brackets at each end in which the 5 comb-bar is swiveled carried by oscillating arms, oscillating arms to support the bearingbrackets and to operate the comb-bar and a movable body provided with a flat surface parallel to the face of the flats when the comb 10 is in operation with which a bearing-bracket on the comb-bar engages to direct the movement of the stripping edge of the comb in a path parallel with the face of the wires of the flat.

2. Apparatus for stripping the revolving flats of carding-engines, comprising a stripping-comb, a swiveling comb-bar provided with pivots at both ends, oscillating arms for actuating the comb-bar to which the bar is piv-20 oted, a projecting piece on the comb-bar and a body provided with surface parallel with the face of the wires of the flat when the comb is in operation against which the projecting piece bears to direct the movement of the 25 stripping edge of the comb in a path parallel to the face of the wires substantially as described.

3. In apparatus for stripping the revolving flats of carding-engines, the combination with a stripping-comb and swiveling comb-bar, of 30 oscillating arms in which the comb-bar is pivoted, an adjustable bracket attached to each end of the comb-bar, and a block against one side of which the working surfaces of the flats rest, and the other surface of which di- 35 rects the movement of the stripping edge of the comb in a path parallel with the face of the flat-wires, substantially as described.

4. In apparatus for stripping the revolving flats of carding-engines the combination with 40 a stripping-comb, swiveling comb-bar, and oscillating carrier-arms by which the comb-bar is carried and the comb actuated, of adjustable devices affixed to the ends of the combbar, swiveling blocks resting upon the ends 45 of the flats with a surface parallel to the face of the flat-wires, an oscillating arm and fixed bracket to carry the block and a spring or weight to maintain it in position, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 12th day of

October, 1897.

WILLIAM SENIOR.

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Witnesses:

E. P. CHARLEWOOD, EDWD. S. CHESNEY.