

(No Model.)

H. H. HOFFMAN.

ELECTRIC MAT.

No. 332,254.

Patented Dec. 15, 1885.

Fig. 1.

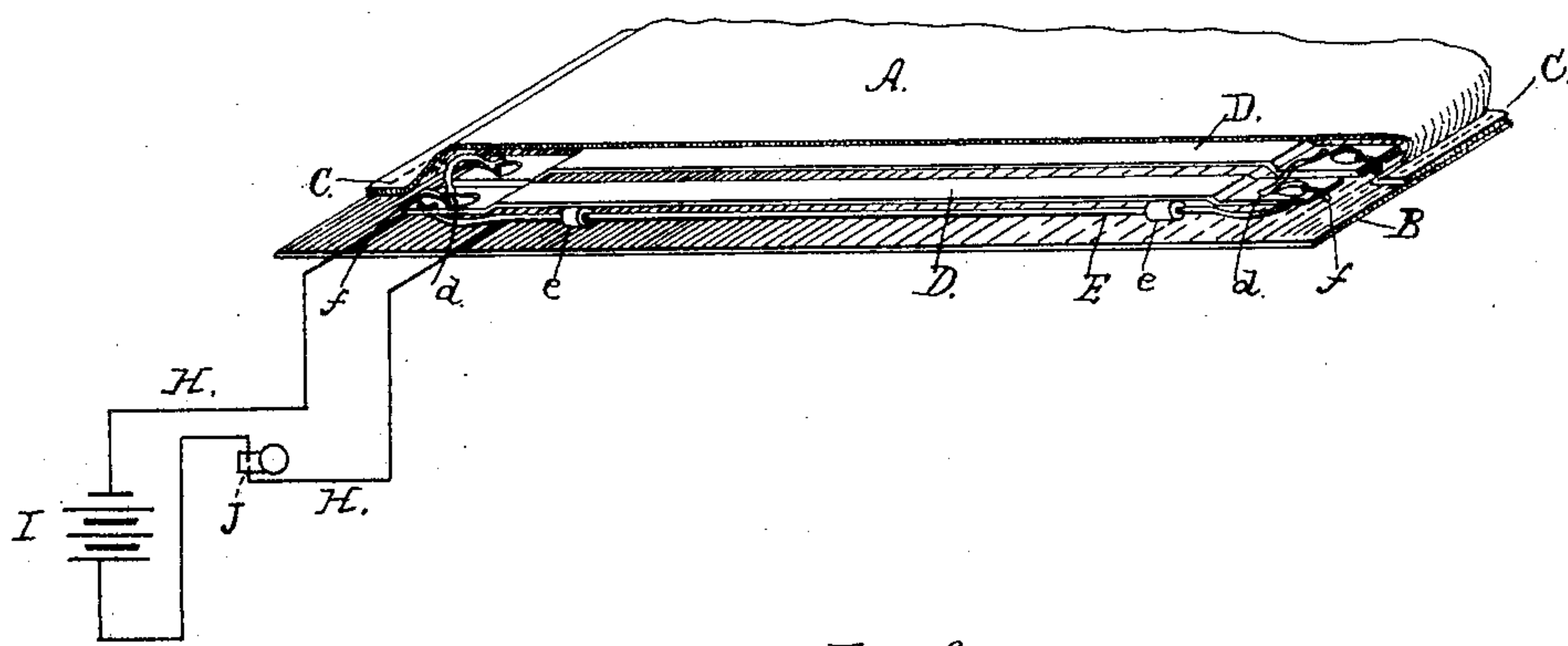


Fig. 2.

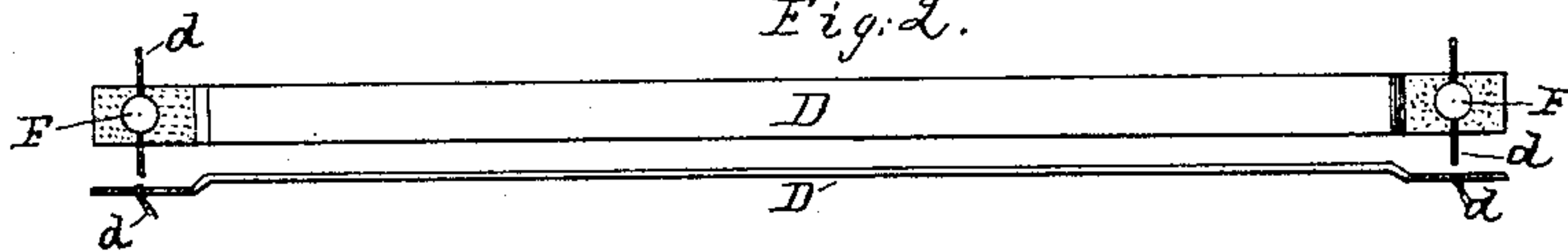
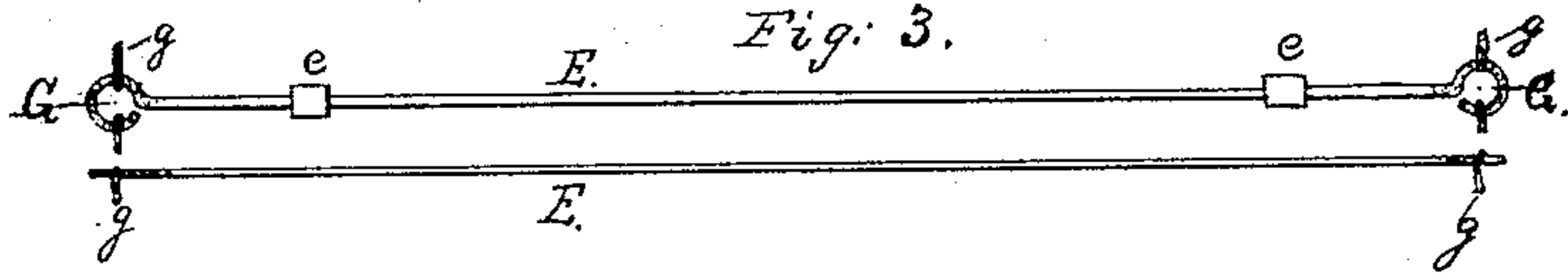


Fig: 3.



WITNESSES:

C. V. Marlane.  
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INVENTOR

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# UNITED STATES PATENT OFFICE.

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## ELECTRIC MAT.

SPECIFICATION forming part of Letters Patent No. 332,254, dated December 15, 1885.

Application filed July 17, 1885. Serial No. 171,904. (No model.)

*To all whom it may concern:*

Be it known that I, HARVEY H. HOFFMAN, a citizen of the United States, and a resident of New York, in the county and State of New York, have invented a new and useful Improvement in Electric Mats, of which the following is a specification.

The object of my invention is to provide a mat so arranged as to close an electric circuit for the purpose of ringing a bell or operating any similar device when trod upon, and I secure this object in the following manner, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view with a portion of the enveloping fabric removed. Fig. 2 is a side and edge view of the metallic strip; and Fig. 3 is a side and edge view of the wire which is combined with the strip.

In constructing the mat I proceed as follows: A narrow strip of spring-brass, D, of suitable length, having its ends insulated, pierced with eyes F F, and provided with insulated connecting-wires *d*, is laid upon a wire, E, the ends of which are bent into eyes G G, which come under and coincide with the eyes F F. The eyes G G are thoroughly insulated, and have attached to them two insulated connecting-wires, *g g*, and the shank of the piece E is also provided with one or more insulating-pieces, *e*, to keep the pieces apart when not being trod upon. The two pieces D E are connected together by eyes in either end,

and thus arranged form a complete strip, a number of which are laid side by side upon a piece of woven fabric, B, and sewed thereto by passing thread *f* through the eyes in either end. The flexible conducting-wires *d* upon the strip D are joined to similar wires upon the adjoining strips, the wires *g* on the piece E being joined in the same manner to the wires on the adjoining pieces E, and so on until all of the strips D are connected, the pieces E the same, the groups thus formed being insulated from each other, and forming the terminals of wires H, connected to a battery, I, with a bell, J, in circuit. The whole is then covered with another piece of fabric, A, which is stitched at C at its edges to the piece B.

I claim—

The spring-piece D, forming one pole of an open electric circuit, connecting-wires *d*, attached thereto, the rod E, forming the opposite pole, connecting-wires *g*, attached thereto, insulating-pieces *e*, battery I, and bell J, combined and arranged as shown, and for the purpose described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 9th day of July, 1885.

HARVEY H. HOFFMAN.

Witnesses:

L. H. LATIMER,  
GERRY G. SCHWARTZ.