F. G. JOHNSON.

Improvement in Metallic Mats.

No. 130,808. Patented Aug. 27, 1872.

Fig. 1.

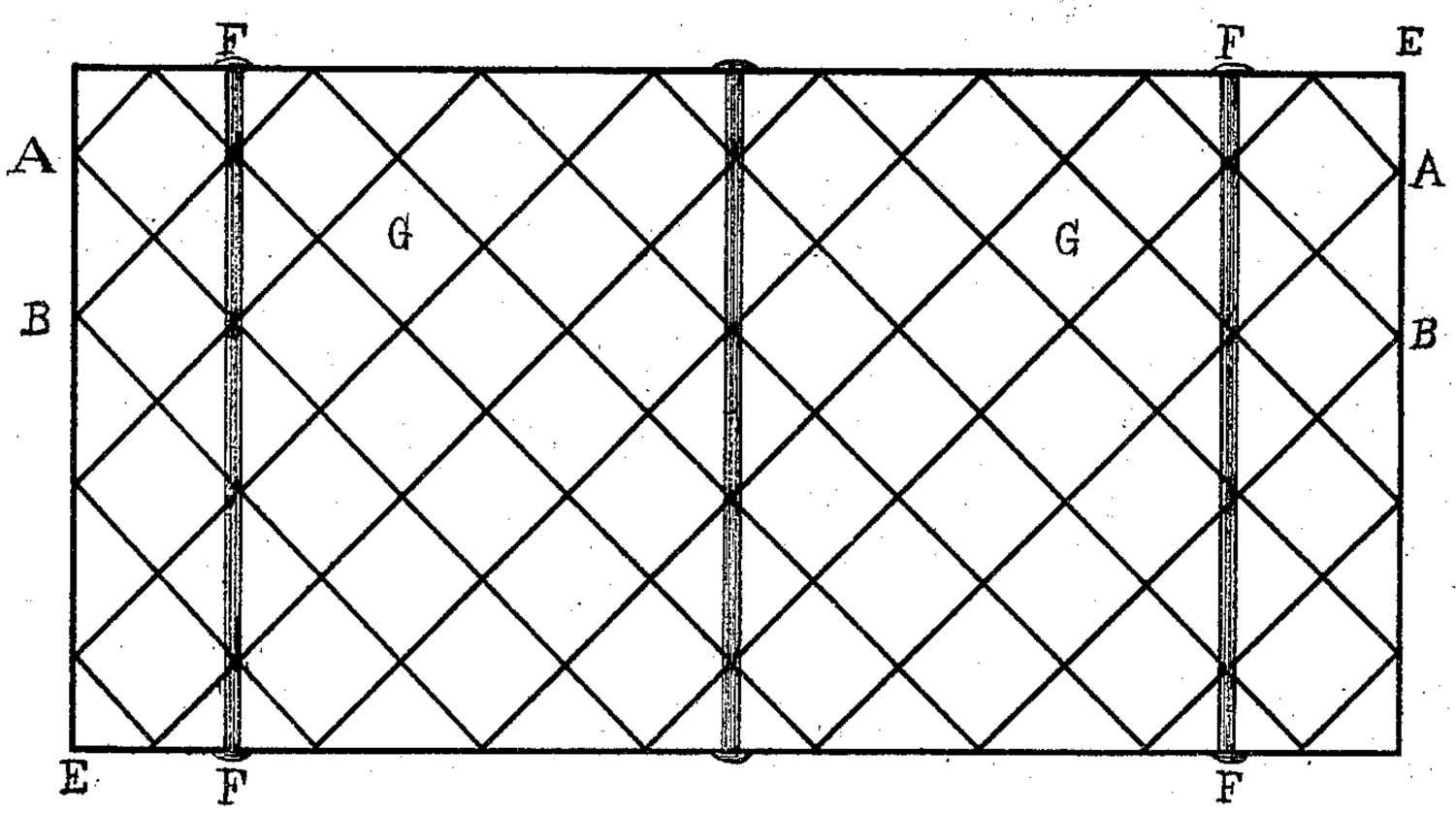


Fig. 2.

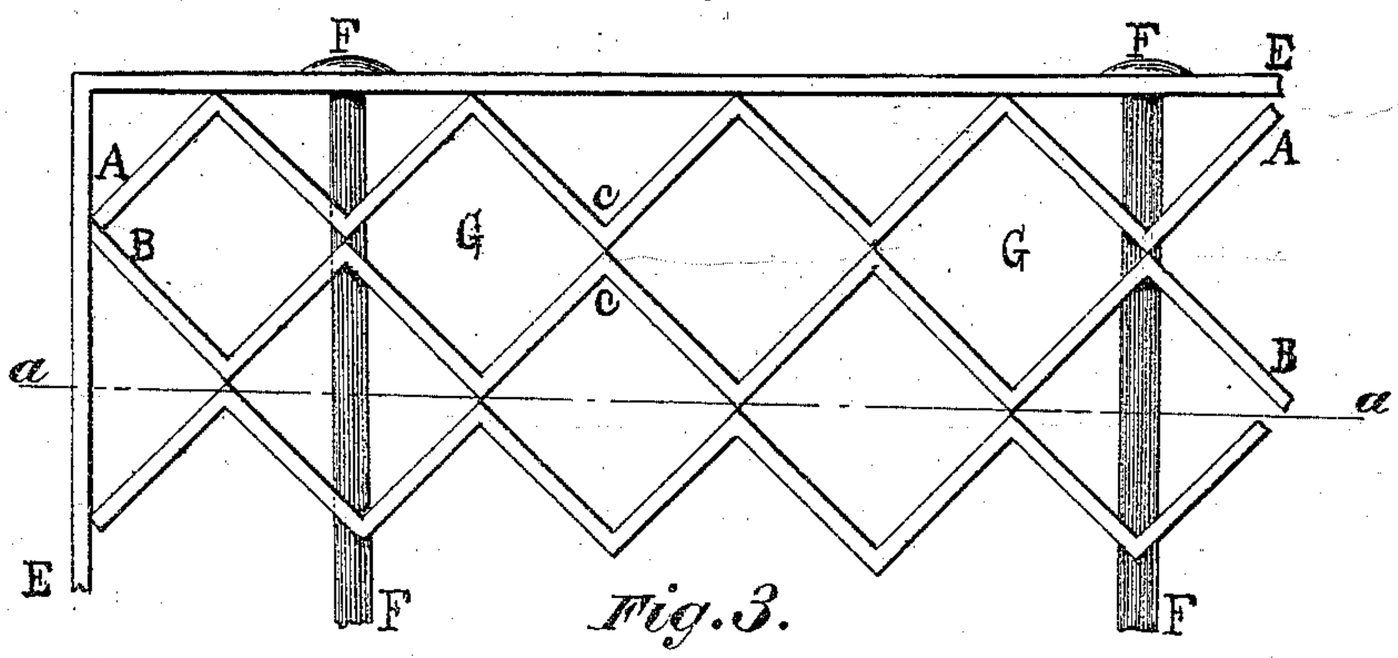
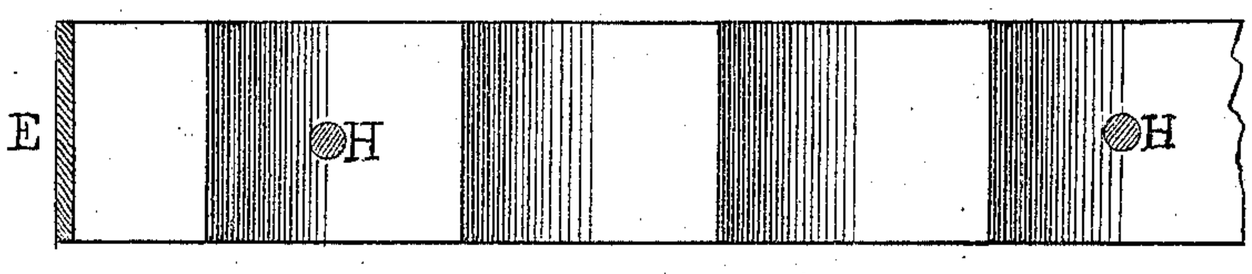


Fig. 3.



Witnesses.

Levi Fowler

Henry W Birney

Inventor:

Frank G. Johnson

UNITED STATES PATENT OFFICE.

FRANK G. JOHNSON, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN METALLIC MATS.

Specification forming part of Letters Patent No. **130,808**, dated August 27, 1872.

To all whom it may concern:

Be it known that I, FRANK G. JOHNSON, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Metallic Mat; and I do hereby declare that the following is a full, clear, and exact description of the construction of the same, reference being had to the annexed drawing making a part of this specification, in which—

Figure 1 represents the mat as it appears when lying on the floor and viewed from above; Fig. 2, a corner section viewed from above, to show the manner of uniting the several parts of the mat; Fig. 3, a vertical section cut through the line *a a*, Fig. 2.

The nature and object of my invention consist in providing a mat made by bending thin narrow strips of metal flatwise out of a straight line, and securely binding a series of these bent strips together in such a manner as to leave openings or spaces between them and bring the bearing and wear and tear upon the mat, when in use, upon the edges of the strips of metal.

To enable others skilled in the art to make and use my invention, I will describe it more minutely.

A A and B B are strips of metal about half an inch in width by about a thirty-second of an inch in thickness, and of any required length. These strips are bent flatwise at short and regular intervals, so as to form right angles, and provided with holes H H, Fig. 3, at suitable distances to admit binding-rods. A suitable number of these strips of uniform length are placed side by side so as to bring their angles in juxtaposition, as shown at C C, Fig. 2, thus leaving square open spaces, as G G, between the strips, for the passage of water, dirt, and mud. These strips, thus placed, are surrounded by a straight strip, E E, of the same width, but not necessarily of the same thickness or material, and all bound and firmly held together by means of suitable rivets, bolts, or rods F F.

I do not confine myself to the use of any particular kind of metal, as copper, zinc, iron, &c., may be employed; or iron may be used and the entire mat galvanized with zinc or other metal, which would more or less stiffen the mat by forming a metal union between the points of contact of the several strips; or several different metals may be employed in the same mat. Nor do I limit myself to bending the strips into right angles, as they may be bent into acute or obtuse angles, or they may be bent into a serpentine form, so long as they are bent out of a straight line, so as to form open spaces between them when combined together as above described.

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

The combination of the strips A A and B B, binding-rods F F, and surrounding border-strip E E, arranged substantially in the manner and for the purpose set forth.

FRANK G. JOHNSON.

Witnesses:

LEVI FOWLER,

HENRY W. BIRNEY.