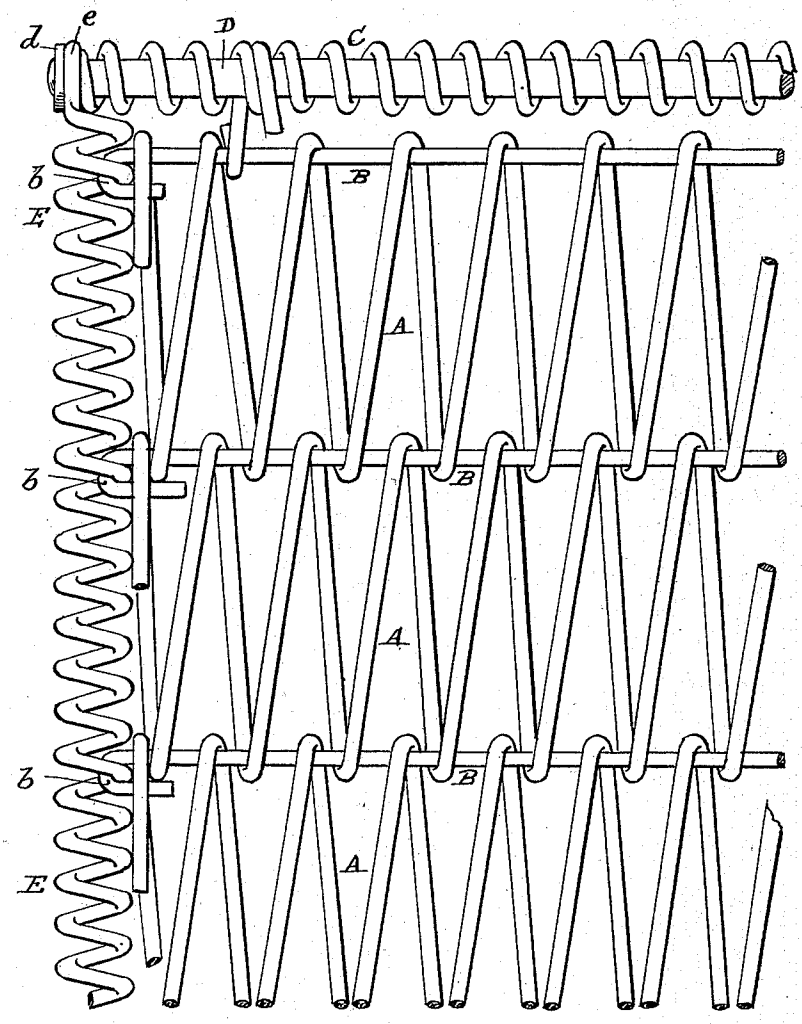
(No Model.)

# G. KELLY.

## FLEXIBLE WIRE FABRIC.

No. 413,234. Patented Oct. 22, 1889.




ATTEST:

Geo. H. Arthur

W. H. Holmes

INVENTOR:

George Kelly,

by Robert Burns

Attorney.

N. PETERS, Photo-Lithographer, Washington, D. C.

# UNITED STATES PATENT OFFICE.

GEORGE KELLY, OF CHICAGO, ILLINOIS.

## FLEXIBLE-WIRE FABRIC.

SPECIFICATION forming part of Letters Patent No. 413,234, dated October 22, 1889.

Application filed March 18, 1889. Serial No. 303,774. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE KELLY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain Improvement in Flexible-Wire Fabrics; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification.

This invention relates to certain improvements in that type of flexible-wire fabrics composed of spirals or coils of wire coiled together to form a wire fabric; and the present improvement has for its object to provide a simple and effective means for attaching a flexible coil or border to the side edges of a coiled-wire fabric, for inclosing the otherwise ragged edges of the fabric and imparting an ornamental finish to the fabric without affecting in the least its capability of being rolled up for transportation. I attain such object by the construction and arrangement of parts illustrated in the accompanying drawing, which represents in plan view a portion of wire fabric constructed in accordance with my invention.

As represented in the drawing, the main body of the fabric is composed of a series of flattened spirals A woven together at their points of intersection by transverse tie-rods B. The ends of the fabric are formed by circular spirals C, inclosing transverse stiffening-rods D of some diameter to impart the desired lateral rigidity to the fabric.

The novelty in the present invention consists in forming the ends of the transverse tie-rods B with eyes or loops *b*, in which are engaged the cylindrical spirals E, that form the side borders of the fabric, so as to effectually secure the same to the body of the fabric, as clearly indicated in the drawing.

In using my improved fabric in the construction of door-mats the ends of the spirals E are formed with longitudinal eyes *b*, that fit over the ends of the end stiffening-rods D, and are secured in place by washers *d*, placed outside the same and held in place by upsetting the ends of the rods.

The flattened spirals A, used in the present fabric, will be preferably formed in accordance with Letters Patent to me, dated February 12, 1889, for method of making flat coiled springs, No. 397,861.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a wire fabric having transverse rods B, of the border E, when said border is secured to the fabric by the engagement with the coils of the border, and the eyes *b* upon the transverse rods, substantially as set forth.

2. A flexible-wire fabric comprising, in combination, the body of the fabric formed of a series of flattened spirals A, connected together by transverse tie-rods B, the ends of which are formed with eyes or loops *b*, and side borders consisting of cylindrical spirals E, engaged in the eyes *b* of the transverse tie-rods B, essentially as herein described.

3. A flexible-wire fabric comprising, in combination, the body of the mat formed of a series of flattened spirals A, connected together by transverse tie-rods B, the ends of which are formed with eyes or loops *b*, rigid end borders formed of spirals inclosing transverse rods D, and side borders consisting of cylindrical spirals E, engaged in the eyes *b* of the transverse tie-rods B, and having at their ends longitudinal eyes *e*, engaging over the ends of the rods D, and secured in place by washers *d* and an upset on the ends of said rods, essentially as herein described.

In testimony whereof witness my hand this 8th day of February, 1889.

GEORGE KELLY.

In presence of—

FRED MORELAND,

EDWD. A. WEBSTER.