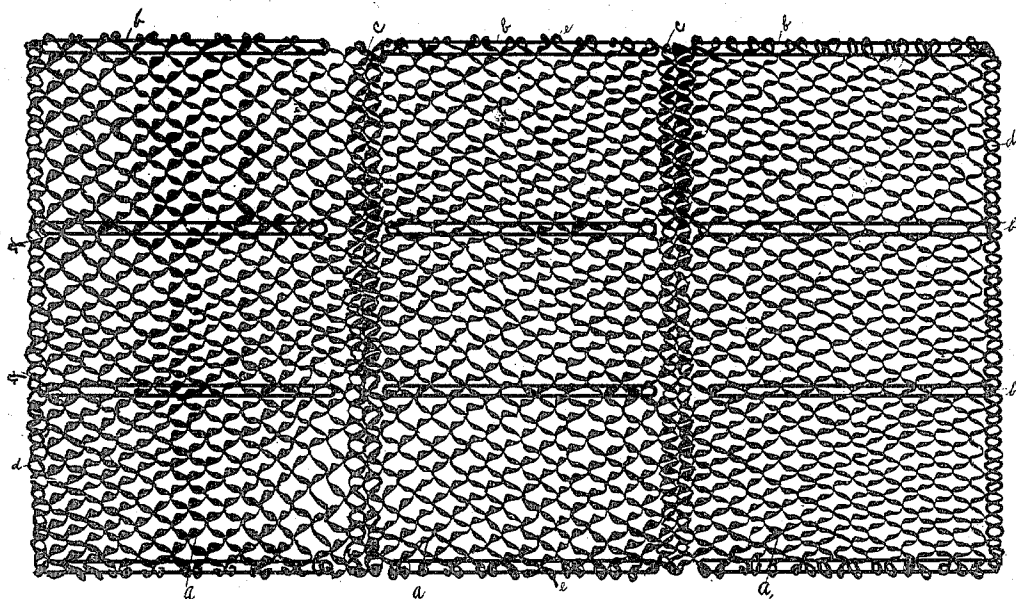


(No Model.)

A. W. KNITTEL.
WIRE MAT.

No. 579,517.

Patented Mar. 23, 1897.



Witnesses:

H. Levin
M. Richards

Inventor.

Andrew W. Knittel

By *C. D. Lewis*

Att'y.

UNITED STATES PATENT OFFICE.

ANDREW W. KNITTEL, OF NEW CASTLE, PENNSYLVANIA.

WIRE MAT.

SPECIFICATION forming part of Letters Patent No. 579,517, dated March 23, 1897.

Application filed December 11, 1895. Serial No. 571,804. (No model.)

To all whom it may concern:

Be it known that I, ANDREW W. KNITTEL, a citizen of the United States, residing at New Castle, in the county of Lawrence and State of Pennsylvania, have invented certain new and useful Improvements in Wire Mats; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in mats, and relates more particularly to that class that are constructed of wire and are commonly known as "door-mats" and the like.

The invention has for its object the construction of a mat of the above-described class which will lie flat when on a smooth surface and not curl up at the edges, which is a serious objection with many of the wire mats now used.

A further object of the invention is the construction of a wire mat that can be folded and laid away when not in use, thereby taking up less space than the ordinary wire mats.

A still further object of the invention is the construction of a mat of the above-described class that will be extremely simple in its construction, strong, durable, effectual in its operation, and comparatively inexpensive to manufacture.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts to be hereinafter more specifically described, and particularly pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawing, forming a part of this specification, and wherein like letters of reference indicate similar parts throughout the view, which is a top plan view of my improved mat.

In the drawing, I have shown a mat in three

sections, and *a a* represent the spiral wires forming the body portion of the sections. The said wires are adapted to abut against each other and are secured rigidly by wires *b b*, forming retaining-stays. The sections are secured together by the spiral wire of one section being interwoven with the engaging wire of the other section, as shown at *c c*. The ends of the mat also have the spiral wires interwoven to form a strong end, as shown at *d d*. The ends of the spiral wires are secured to the retaining-stays *b b*, as shown at *e e*. By this construction of a wire mat in sections it will be readily apparent that the ends of the same, by reason of the interwoven spiral wires securing the sections together, will always lie flat, and the spiral wires abutting closely against one another and retained in this position by the retaining-wires will present an even surface on the top of the mat.

The advantages of the folding mat aside from allowing the mat to lie flat and not curl up will be readily apparent when used for street and railway cars and the like, as they can easily be folded up and laid away when not in use.

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

The wire mat consisting of a series of independent sections, with the spiral wires forming the body portion thereof adapted to abut against each other and rigidly secured by stay-rods, the ends of said spiral wires being connected to said stay-rods, said sections being secured together by the spiral wire of one section being interwoven with the corresponding wire of the opposite section, and said sections also having interwoven spiral-wire ends, all as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

ANDREW W. KNITTEL.

Witnesses:

R. S. BRECKENRIDGE,
J. L. BIGGERSTAFF.