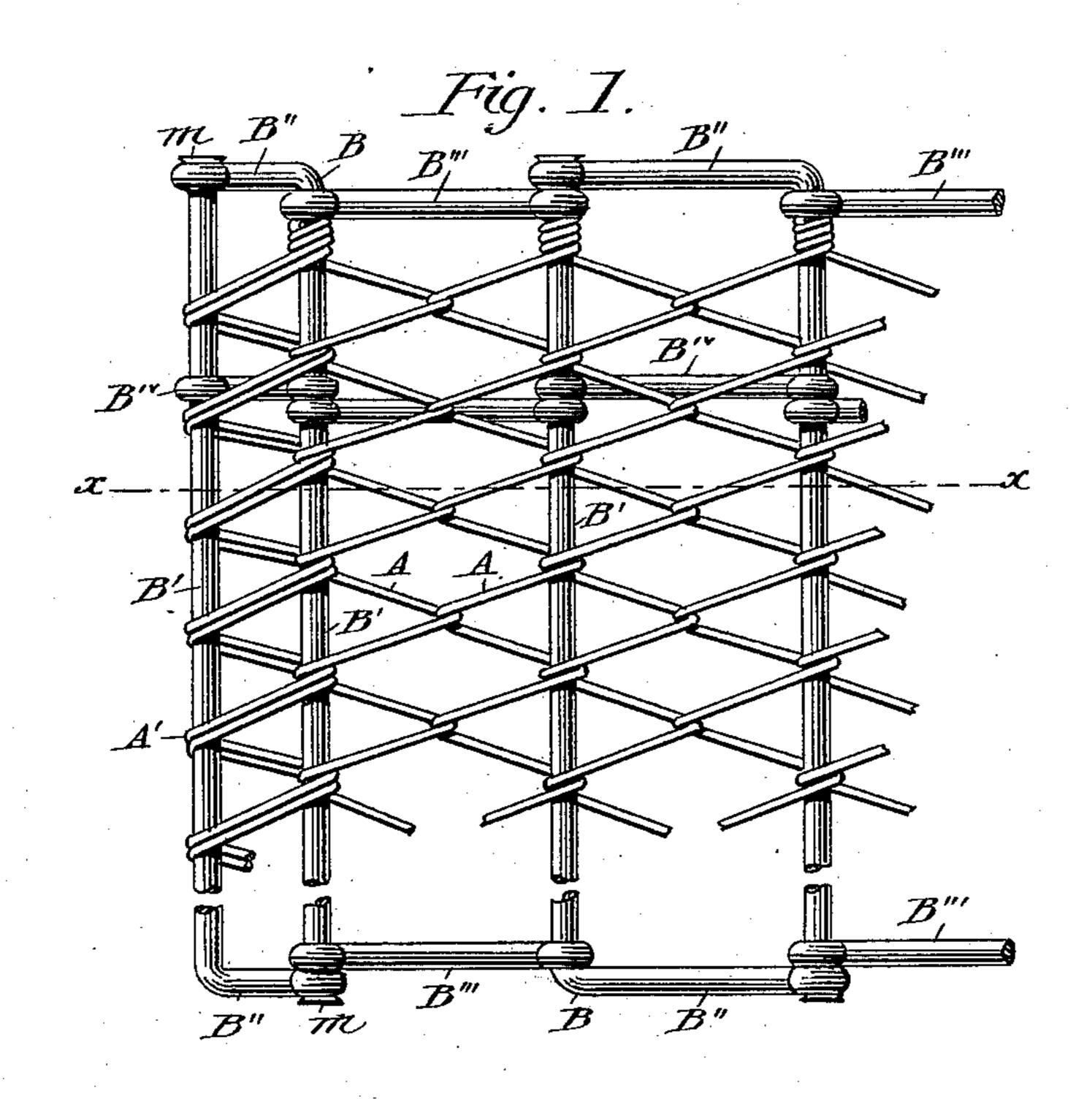
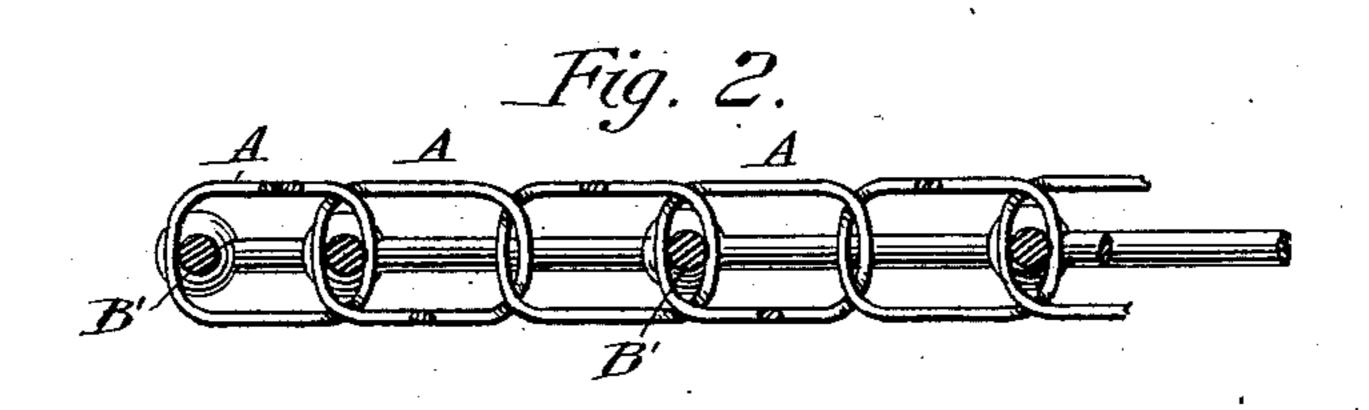
(No Model.)

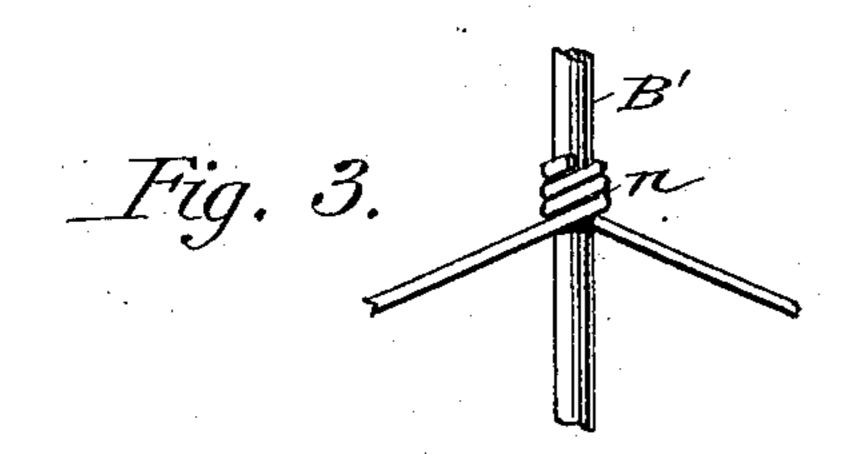
D. C. STOVER. WIRE FABRIC.

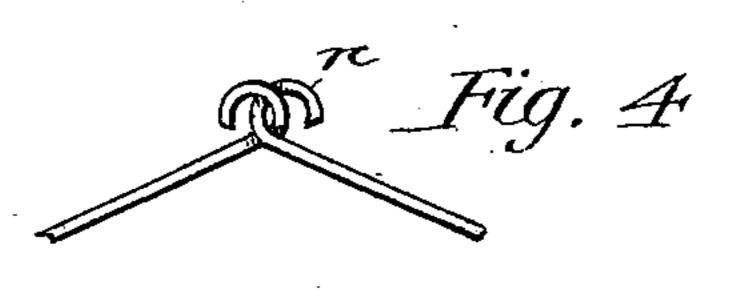
No. 361,334.

Patented Apr. 19, 1887.









Witnesses. Novin L. blank Will. Lamar Samuel Colorer Spring Thiles Voncence Shis action.

United States Patent Office.

DANIEL C. STOVER, OF FREEPORT, ILLINOIS.

WIRE FABRIC.

SPECIFICATION forming part of Letters Patent No. 361,334, dated April 19, 1887.

Application filed December 10, 1886. Serial No. 221,242. (No model.)

To all whom it may concern:

Be it known that I, DANIEL C. STOVER, a resident of Freeport, in the county of Stephenson and State of Illinois, have invented certain 5 new and useful Improvements in Wire Fabrics; and I do hereby 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 pertains to make and use

ro the same. My invention is especially adapted for coverings for floors, and, when formed in smaller pieces, for use in place of the ordinary doormats. Its object is to abate the dust nuisance 15 common to many rooms, carpeted and uncarpeted, to diminish noise, to save wear upon carpets where carpets are used, and to promote cleanliness in public halls and public conveyances. When employed without an overlying 20 carpet the wire fabric itself takes the place of a carpet and receives direct wear. In this case the fabric to the floor, where it remains undisturbed, and the same is true of much of the 25 foulness arising from the use of tobacco in public rooms. When the wire fabric is used as a carpet-lining the wear on the carpet is less than when the carpet is laid upon the ordinary sur-

and thus the dust is driven through and deposited upon the underlying floor. The invention is fully set forth in this specification and the accompanying drawings,

face, for it is well known that the "grit" ac-

cuts out the threads, while in this case ordinary

use of the carpet subjects it to a gentle beating.

30 cumulating in and beneath much-used carpets

wherein— Figure 1 is a view of the fabric seen from above. Fig. 2 is a view looking at the edge of 40 the fabric and at the ends of its parallel constituent coils. Figs. 3 and 4 are detail views, hereinafter fully explained.

In the drawings, A A are parallel coils of 45 each turn of the wire. B are rods at the ends of the coils, at the outer side of the outer coils, and at intervals between the outer coils, for the purpose of attaching to the floor and to give permanency and rigidity of form to the whole fab-50 ric. Each of these rods consists of a body, B', and a portion, B", bent at right angles to said

body and looped about its fellow rod, so that when detached from the floor the fabric, being jointed at each rod, may be readily rolled or folded for transportation. The two ends of the 55 fabric or edges transverse to the axes of the coils are symmetrically formed, and the alternate openings or gaps in the chain B" B", consequent upon the formation described, are spanned by links B". At suitable intervals 60 the rods B' are joined by other similar links, B^{IV}, preventing undue stretching of the fabric transversely to the coils.

As shown, the outer coils, A', are doubled for the sake of appearance and also for strength, 65 since then a greater weight may be thrown upon a single coil—that is, for example, the entire weight of the body may be thrown upon a few turns of that coil alone, but, owing to the small size of the coils, cannot be so thrown 70

upon any other coil.

The coils A A are preferably of the form dust falling passes through the interstices of | illustrated in Figs. 1, 2, the upper and lower exposed surfaces of each of the coils being plane, and the wires of the interlocking coils, 75 when seen in plan, forming practically-straight diagonal lines. It is evident that the use of the rods B is the same whatever may be the form of the coils, and such coils may therefore be either cylindrical or non-cylindrical, so far 80 as their combination with the rods B is concerned. Any non-cylindrical form is, however, preferable to the cylindrical, for the reason that parallel cylindrical coils tend to roll under pressure, and the form illustrated in the 85 drawings is preferable to an oval or other similar form, for the reason that the flat-sided coils give the greatest possible wearing surface. I have found in practice that either oval or cylindrical coils wear through first at the highest 90 points, and thus become useless long before the body of the fabric is appreciably affected by use.

The use of rods passing through the fabric, substantially as illustrated, is an important wire, each interlocking the adjacent coils at | improvement; but it is not absolutely essen 95 tial, and I therefore do not limit the use of the flat-sided coils to their combination with the rods. When the rods are used, I prefer to place them so that each passes through all the spirals of two interlocking coils, and the rods may be roo so distributed that each coil is traversed by either one or two rods, or so that the rods pass

through only one coil out of every two, three, or more. The spaces between the lines of links B" may of course be varied at pleasure, and, if it be desired, the main rods may be dispensed 5 with, leaving only the lines of transverse links.

The ends m of the rods B may be headed, as shown, or bent, to prevent withdrawal from the encircling-loops, and the ends n n of the coils A are formed into hooks interlocking 10 with each other around the rods, as in Fig. 3, or with each other simply, as in Fig. 4.

It is evident that this covering or fabric may be formed instrips like ordinary matting of the full size of the room, or in smaller portions for 15 mats and other purposes.

What I claim is—

1. A wire fabric for floor-covering, consisting of a series of suitably connected wire coils whose wearing-faces are made up of approxi-20 mately straight lines of wire lying in the same plane, substantially as and for the purpose set forth.

2. In a fabric of the class described, the combination, with a series of interlocking wire coils, of a series of parallel rods passing longitudi- 25 nally through said coils and joined by transverse flexible connections, substantially as and

for the purpose set forth.

3. The combination of the interlocking parallel coils A, the double marginal coils A', the 30 rods B', passing longitudinally through the interlocking coils and having transverse extensions B", and the links B" B", joining the rods B', substantially as shown and described, and for the purpose set forth.

In testimony whereof I have signed this specification in the presence of two subscribing

witnesses.

DANIEL C. STOVER.

Witnesses:

C. W. GRAHAM,

J. A. CRAIN.