

W. WIRZ.
DOOR MAT.

APPLICATION FILED JUNE 11, 1912.

1,056,139.

Patented Mar. 18, 1913.

FIG. 4.

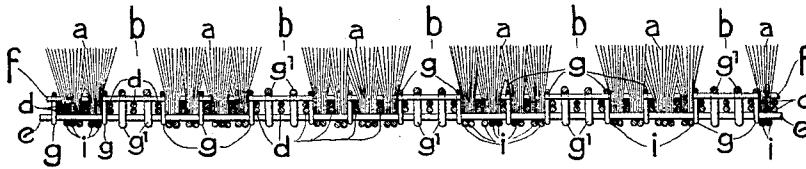


FIG. 1.

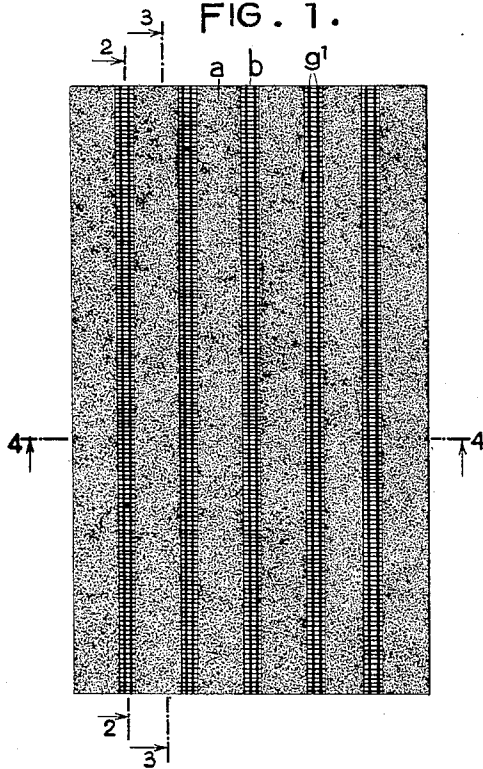


FIG. 2.

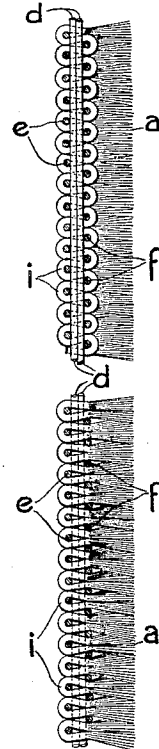


FIG. 3.

WITNESSES
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WALTER WIRZ, OF LUCERNE, SWITZERLAND.

DOOR-MAT.

1,056,139.

Specification of Letters Patent.

Patented Mar. 18, 1913.

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To all whom it may concern:

Be it known that I, WALTER WIRZ, manufacturer, a citizen of the Swiss Republic, and resident of Lucerne, in the Republic of Switzerland, have invented new and useful Improvements in Door-Mats, of which the following is a full, clear, and exact specification.

My invention relates to improvements in door-mats.

The door-mat forming the subject of the invention consists of a woven pile coir or cocoa-nut fiber mat of any kind, the pile threads of which form bands or strips running parallel to the direction of the length of the mat, the said pile strips or bands being separated by intermediate pileless web portions so that parallel grooves or recesses are formed between them, which grooves receive the mud and dirt consequently render the collection thereof in and upon the pile difficult and prevent them from falling down on the floor, and moreover permit of a quicker drying of the pile and a more effectual and easy cleansing of the mat than heretofore.

From the known mats with parallel strips of vegetable fibers held between wire rows forming a network with free interspaces between the strips, the mat of the present application is distinguished thereby that with the latter the mud and dirt are collected in the grooves between the pile strips and cannot, as with the former, fall down on the floor and soil the same.

In the accompanying drawing one form of mat made according to the invention is shown, by way of example.

In the said drawing: Figure 1 is a plan view of the mat. Figs. 2 and 3 are partial longitudinal sections thereof on the lines 2-2 and 3-3 respectively of Fig. 1, and Fig. 4 is a partial transverse section of the mat on the line 4-4 of Fig. 1.

As is obvious from the drawing the door-mat comprises a woven pile coir mat, the pile threads of which constitute parallel bands or strips *a* extending in the direction of the length of the mat and which bands or

strips *a* are separated from one another by the parallel intermediate web portions devoid of pile, thus constituting grooves or recesses *b*.

The interweaving of the threads of the fabric forming the door-mat can be effected in any manner usual in the manufacture of pile coir matting. The arrangement illustrated in the drawing shows two horizontal superposed rows of alternating weft threads *e* and *f*, separated from one another, and between which are held pairs of superposed straight parallel warp threads *d* and which are connected together by means of undulating or binding warp threads *g*, *g*¹ extending through the pile bands or strips *a* and through the pileless portions *b*. Three such binding or undulating warp threads *g* are provided for each pile strip *a*, viz., one in the middle and one on each side thereof, while each of the pileless bands *b* has two such binding or undulating warp threads *g*¹. The pile threads *i* are merely suspended to the threads *e* of the lower weft row and their attachment in the fabric is insured by the undulating or binding warp thread *g*, the double warp *d* and the threads of the upper weft row *f*.

On wiping a boot upon such a door-mat the mud and dust removed from the boot by the pile works into the grooves *b*. When the door-mat is subsequently inverted the mud and dirt collected in the grooves fall out so that the mat is less liable to retain mud and dirt than mats which are entirely covered with pile. Moreover, dirt from a boot is not rubbed out on to the floor when the boot is wiped on the mat but falls into the grooves *b* in which it is collected.

My invention can be applied to all kinds of pile coir or cocoa-nut fiber mats.

What I claim is:

A door-mat consisting of a woven pile coir or cocoa-nut fiber mat, the pile threads of which form parallel bands or strips running lengthwise of the mat and which are separated by pileless intermediate web portions so that the mat has parallel grooves extending between the pile strips or bands,

which grooves receive the mud and dirt rendering difficult the collection thereof in and upon the pile and prevent them from falling down on the floor and furthermore permit
5 of a quick drying of the pile and a more effectual and easy cleansing of the mat.

In witness whereof I have hereunto signed

my name this 28 day of May 1912, in the presence of two subscribing witnesses.

WALTER WIRZ.

Witnesses:

C. FINK,

J. SORMANI.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
