Aug. 19, 1924. 1,505,558

E. A. GRABOWSKI

FLOOR MAT

Filed Jan. 26, 1923 2 Sheets-Sheet 1

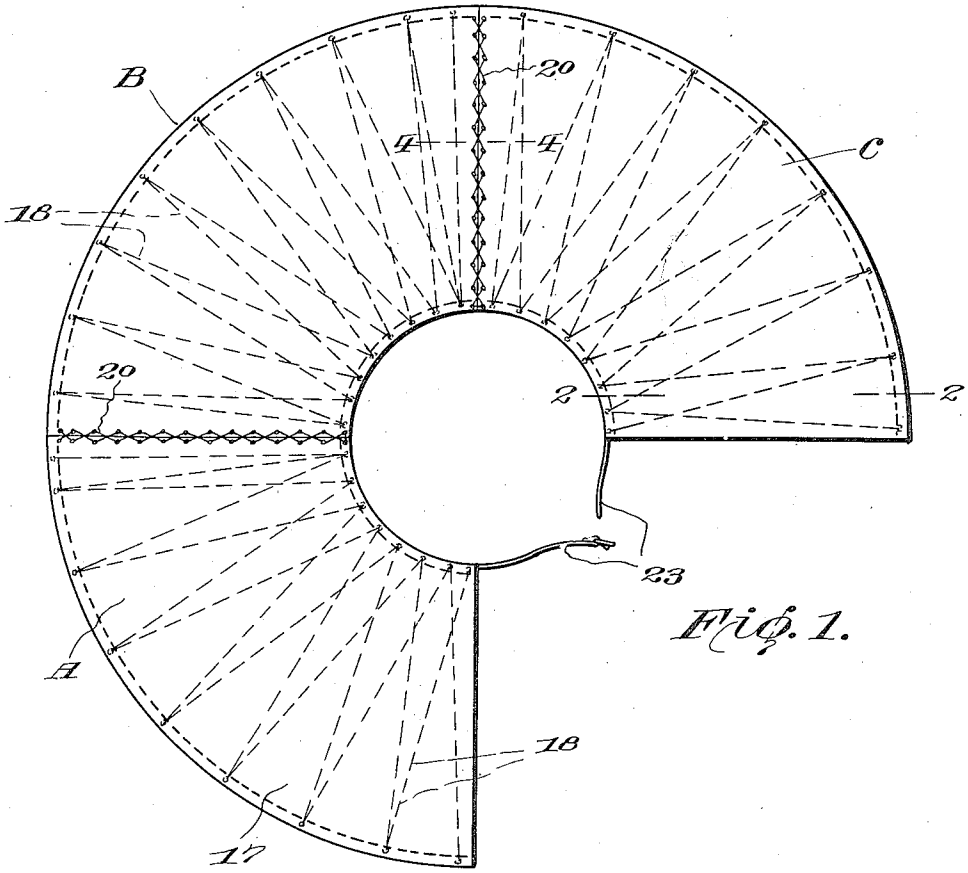


Fig. 1.

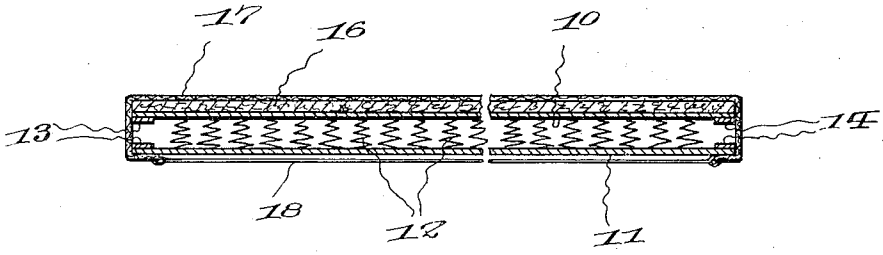


Fig. 2.

Inventor:
Emil A. Grabowski.

By Max A. Schmidt
Attorney.

Aug. 19, 1924. 1,505,558

E. A. GRABOWSKI

FLOOR MAT

Filed Jan. 26, 1923 2 Sheets-Sheet 2

Fig. 3.

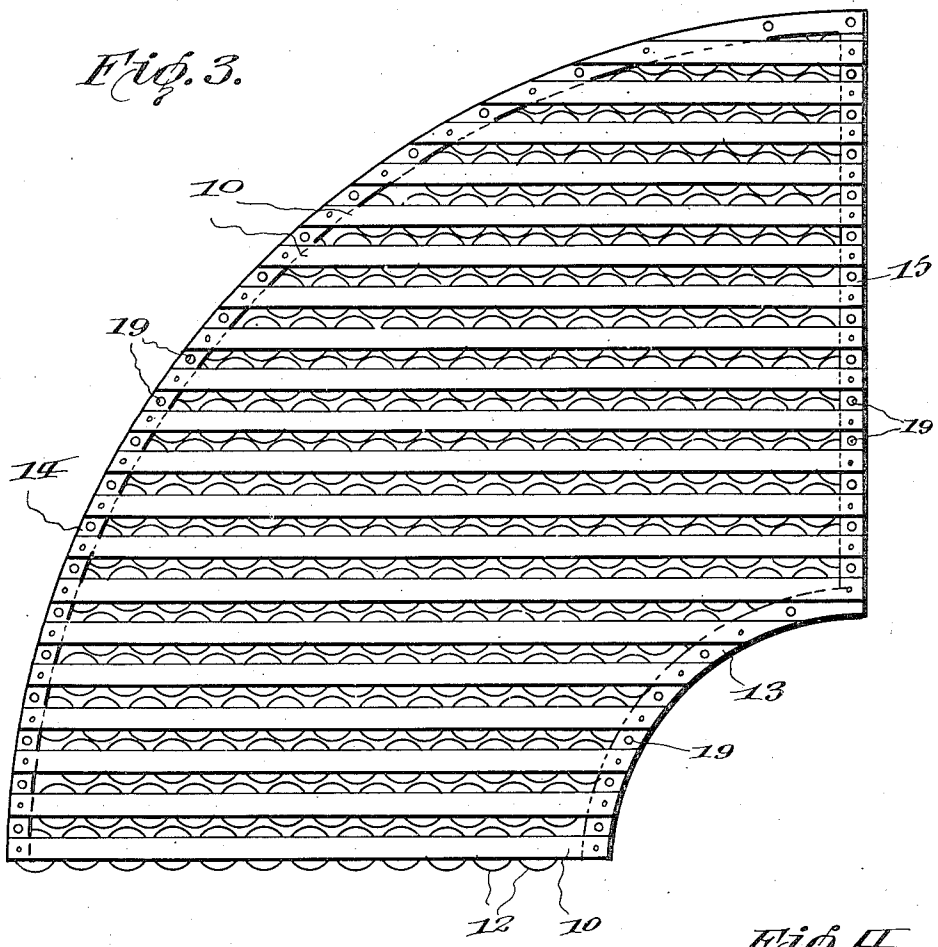
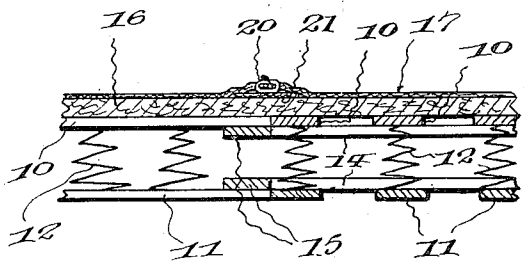


Fig. 4.



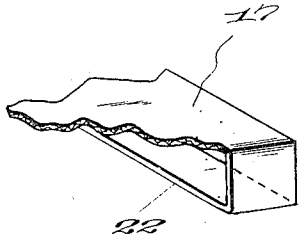


Fig. 5.

Inventor

Emil A. Grabowski.

By Max A. Schmidt

Attorney

Patented Aug. 19, 1924. 1,505,558

UNITED STATES PATENT OFFICE.

EMIL A. GRABOWSKI, OF ESCANABA, MICHIGAN.

FLOOR MAT.

Application filed January 26, 1923. Serial No. 615,179.

To all whom it may concern:

Be it known that I, EMIL A. GRABOWSKI, a citizen of the United States, residing at Escanaba, in the county of Delta and State of Michigan, have invented certain new and useful Improvements in Floor Mats, of which the following is a specification.

This invention relates to foot mats and similar floor coverings, and its object is to provide a hygienic and sanitary article of this kind in which are incorporated spiral springs to render walking easier and less noisy. The mat is well adapted for use around the base of dentist and barber chairs, but it can also be used in hallways and other places, and especially in hospitals where a floor mat is desirable to eliminate noise from walking. The mat will also be found useful in banks, lodge-rooms and other places, and especially in places where employees are compelled to be on their feet for long periods of time.

With the object stated in view, the invention consists in a novel combination and arrangement of parts to be hereinafter described and claimed and in order that the same may be better understood, reference is had to the accompanying drawings, wherein,

Figure 1 is a plan view of a mat designed for use around the base of a dentist or barber chair;

Fig. 2 is an enlarged cross-section on the line 2—2 of Fig. 1;

Fig. 3 is a plan view of a spring frame;

Fig. 4 is an enlarged section on the line 4—4 of Fig. 1, and

Fig. 5 is a detail in perspective.

The mat shown in the drawings is composed of three arcuate sections A, B and C, respectively, which cover the floor adjacent to the base of the barber, dentist or other chair, and they are arranged to partly surround such chair base.

Each mat section consists of a metallic frame work composed of parallel and spaced top and bottom cross strips 10 and 11, between which are interposed conical spiral springs 12, said springs being positioned in alternate order and suitably fastened at their top and bottom ends to the strips. The cross strips are flexible they being made of spring steel or other suitable material. At the inner curved edge of this frame, the cross strips are connected in laterally spaced relation by a curved strip 13, and a similar strip 14 connects the outer curved edge of the cross strips. At one end of the frame, a straight strip 15 connects those cross strips which are not connected by the curved strip 13.

The top of the spring frame hereinbefore described is provided with a pad 16 of felt or other suitable cushioning material, and on top of this is a covering 17 of canvas or other suitable textile material.

The canvas covering 17 extends down over the curved inner and outer edges of the mat section and also here overlaps the bottom of the spring frame for a short distance. This bottom portion of the covering has eyelets to receive a lacing 18 for holding the covering in place. The covering may also be laced directly to the spring frame, and for this purpose the strips 14 and 15 are provided with perforations 19.

The covering 17 of the middle section B of the mat is laced at its ends to the adjacent ends of the coverings of the end sections A and C of the mat, as shown at 20. The aforesaid ends of the coverings of the sections A and C are also provided with flaps 21 which underlap the lacings to prevent dust and dirt from passing through the joints and accumulating on the pad 16. By means of the lacings 20 the three sections are detachably connected at their adjoining ends.

At the outer ends of the end sections A and C of the mat, the coverings 17 thereof are formed into pockets 22 in which said ends seat and by which they are covered.

The mat may also be provided with a strap-and-buckle fastening 23 for securing the same to the base of the chair.

The drawings disclose a practical embodiment of the invention, but it will be understood that various changes and modifications may be made without a departure from the spirit and scope thereof as set forth in the appended claims. The mat can be made in any desired number of sections and in any desired shape according to the location in which it is to be used.

I claim:

1. In a floor mat, a frame composed of upper and lower sections, each made up of closely spaced strips of yieldable material arranged in substantial parallelism and connected together, a comparatively thin pad of uniform thickness resting on said upper

section, and a removable cover stretched tightly over the pad to provide a smooth and plane surface to walk on.

2. In a floor mat, a spring supported frame adapted to lie on a rigid floor, and a removable cover stretched tautly over the top, sides, and ends of said frame, the edges of said cover underlying the opposed sides of said lower section, said edges having apertures, and lacing passing through the apertures to hold said cover in place.

3. A floor mat comprising a plurality of yieldable sections or units of uniform height having their ends arranged in abutting relation, said units being equipped with covers, the adjacent ends of which are formed with holes, and separate cords laced through said holes to detachably connect the units together.

4. The structure set forth in claim 3, wherein said covers are provided with flaps disposed beneath said cords for the purpose specified.

5. In a floor mat, a plurality of substantially arcuate units of uniform height having their ends arranged in abutting relation to form a segmental mat, the inner longitudinal sides of the units being arranged in a manner to form an opening at the center of the mat to permit it to surround the standard of a barber's chair or the like, said units being constructed to render them yieldable, and means for attaching the mat to said standard.

In testimony whereof I affix my signature.

EMIL A. GRABOWSKI.

Witnesses:
S. C. HARKINS,
MARIE THORSEA.