No. 740,478. PATENTED OCT. 6, 1903.

P. J. SHRUM.

METALLIC MAT.

APPLICATION FILED OCT. 1, 1902.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 2.

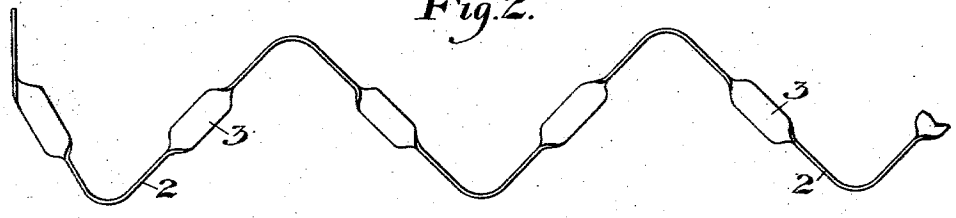


Fig. 1.

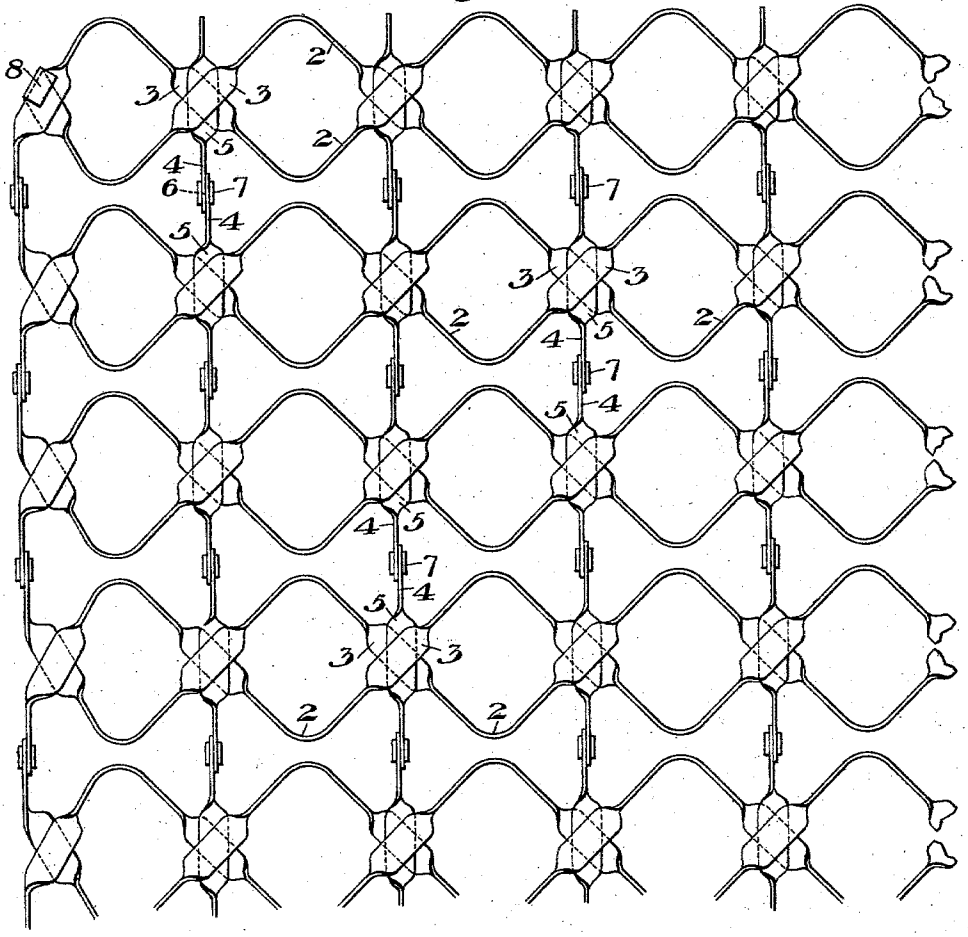
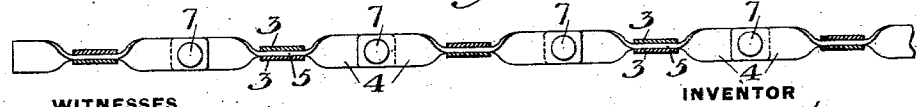


Fig. 3.



WITNESSES

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NO MODEL. 2 SHEETS—SHEET 2.

Fig. 4.

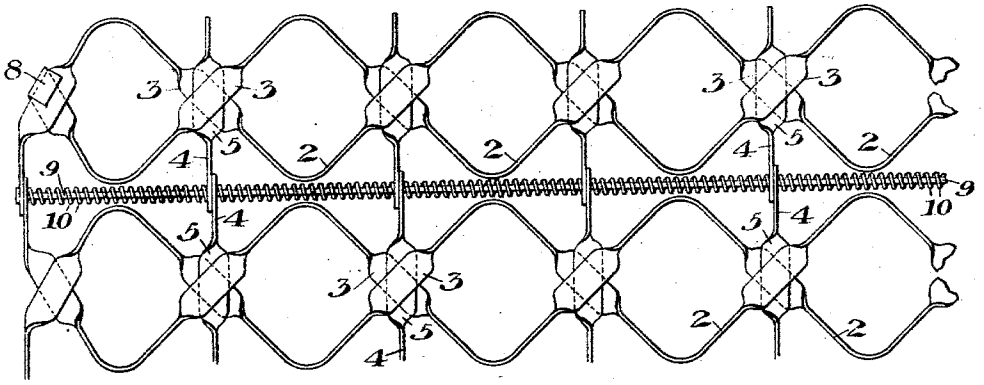


Fig. 5.

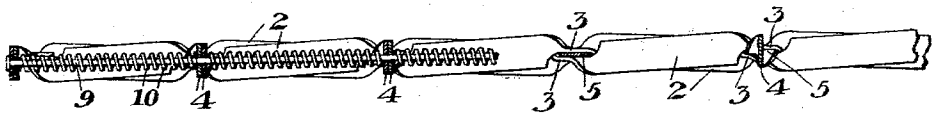


Fig. 6.

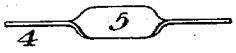
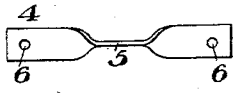


Fig. 7.



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No. 740,478. Patented October 6, 1903.

UNITED STATES PATENT OFFICE.

PETER J. SHRUM, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO KEARNEY J. HENDRICKS, OF PITTSBURG, PENNSYLVANIA.

METALLIC MAT.

SPECIFICATION forming part of Letters Patent No. 740,478, dated October 6, 1903.

Application filed October 1, 1902. Serial No. 125,592. (No model.)

To all whom it may concern:

Be it known that I, PETER J. SHRUM, of Pittsburg, Allegheny county, Pennsylvania, have invented a new and useful Metallic Mat, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top plan view showing one form of my improved mat. Fig. 2 is a detail view showing a portion of one of the strips forming the mat. Fig. 3 is a longitudinal section of the mat. Fig. 4 is a partial top plan view of another form of my mat. Fig. 5 is a partial longitudinal section, partly broken away, of the form of Fig. 4; and Figs. 6 and 7 are detail views of the connecting-strips employed.

My invention relates to that class of metallic mats wherein metal strips or ribbons are employed, which are held so that the shoes contact with their edges, and is designed to improve the structure of mats of this character which can be rolled up.

In the drawings, referring to the form of Figs. 1, 2, and 3, 2 2 represent metallic strips or ribbons, each of which is of the shape shown in Fig. 2. As shown in this figure, this strip is bent in zigzag form, with a portion 3 of each leg twisted or bent into a plane substantially at right angles to the plane of the leg. In forming a mat unit two of these strips 2 are interwoven with each other, the flattened portions of one passing alternately over and under those of the other, and between these flattened portions 3 I insert connecting-pieces of the form shown in Figs. 6 and 7. Each of these pieces 4 has a flattened portion 5, bent or twisted into a plane substantially at right angles to the plane of the strip, which is perforated at both ends, as shown at 6. The two strips 2 2 when woven together with the strips 4 arranged between their flattened portions, as shown, provide a mat-section, and the mat may be made of any desired length by attaching together a number of these sections. I preferably secure the sections together by means of small rivets 7, extending through the overlapped ends of the connecting-pieces 4, as shown in Figs. 1 and 3. The mat may be made of any width, according to the length of the strips 2, or mat-sections may be secured together side by side to secure the desired width.

The mat may receive an end finish of any desired form, though I preferably shape it as shown in the upper portion of Fig. 1, the inner strip 2 of this section having its end portion 8 bent around the flattened portion of the other strip.

In Figs. 4 and 5 I show a form similar to the first form, except that instead of separate rivets being used to connect the mat-sections together I provide a transverse wire 9, which extends through the overlapping ends of the pieces 4 and through the sides of the mat, the ends of the wire being suitably bent or peened over. In this form I preferably use short spiral springs 10 between the joints of the connecting-strips to space them apart and hold them in proper position.

The advantages of my invention result from the strength and light weight per square foot of the mat. The mat may be rolled up endwise and presents an attractive appearance, while a large amount of resisting-surface is afforded no matter at what angle the shoe may meet it. The shape of the meshes may be varied, as may also the method of interweaving and connecting the sections together, and many other changes may be made in the form and arrangement of the parts without departing from my invention.

I claim—

1. A metallic mat having sections hinged to each other forming a flexible mat, each section having meshes formed of bent metal strips or pieces with twisted flattened portions; substantially as described.

2. A metallic mat formed of sections which are hinged together to form a flexible mat, each section being formed of metal strips bent to form meshes and having twisted flattened portions at their junctures; substantially as described.

3. A metallic mat formed of parallel sections having connecting portions hinged together to form a flexible mat, each section being formed of a plurality of metal strips or pieces having interfitting flattened portions lying substantially in the plane of the mat; substantially as described.

4. A metallic mat formed of metal strips or pieces bent to form meshes with interfitting flattened portions, and connecting-pieces having flattened portions interfitting with those of the mesh-pieces; substantially as described.

5. A mat formed of sections, each section having meshes formed of bent angular pieces with interfitting flattened portions and connecting-strips engaging the flattened portions; the strips of one section being hinged to those of the next; substantially as described.

6. A mat formed of sections, each section consisting of two ribbons bent in zigzag form with twisted flattened portions in the legs, the flattened portions of one strip passing alternately over and under those of the next, and connecting-strips with flattened portions engaging those of the ribbons, the connecting-strips being hinged to each other; substantially as described.

7. A flexible metallic mat formed in parallel sections, each section containing metal strips bent to form meshes and provided with interfitting short projecting side strips, transverse rods extending through the ends of the projecting short strips and separated spacers surrounding a rod between the pairs of ends of the strips; substantially as described.

In testimony whereof I have hereunto set my hand.

PETER J. SHRUM.

Witnesses:
GEO. B. BLEMING,
H. M. CORWIN.