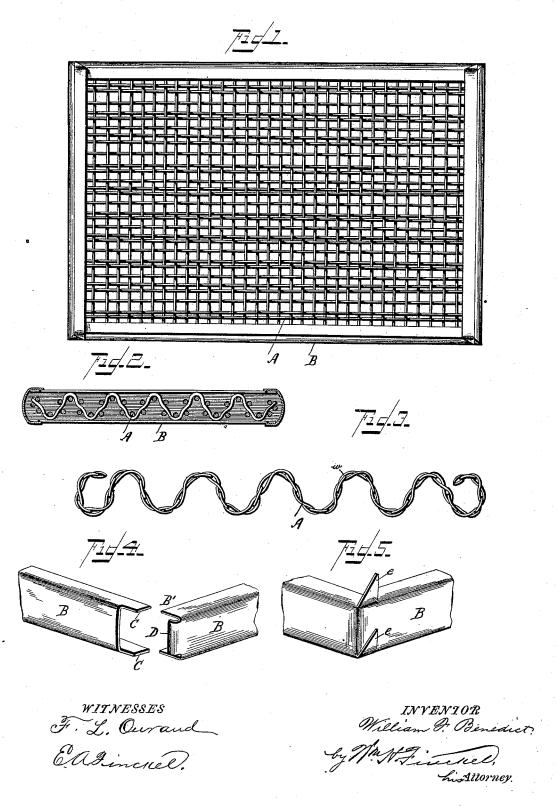
(No Model.)

## W. F. BENEDICT. WIRE FOOT MAT.

No. 420,985.

Patented Feb. 11, 1890.



## United States Patent Office.

WILLIAM F. BENEDICT, OF NEW YORK, N. Y.

## WIRE FOOT-MAT.

SPECIFICATION forming part of Letters Patent No. 420,985, dated February 11, 1890.

Application filed July 19, 1887. Serial No. 244,715. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. BENEDICT, of the city and county of New York, in the State of New York, have invented certain new 5 and useful Improvements in Wire Foot-Mats; which improvements are fully set forth in the following specification, reference being made therein to the accompanying drawings.

This invention relates to improvements in 10 wire foot-mats; and it consists in a mat constructed of woven wire corrugated transversely to the selvage, its ends being woven with a selvage and having a strengtheningwire run therethrough to give additional ri-15 gidity, and its other sides being closely curled for the purpose of finishing and stiffening the same. Such mat may have or not, as preferred, a surrounding and inclosing metallic

In the drawings, Figure 1 represents a top or plan view of my wire mat having an inclosing-frame. Fig. 2 is a vertical transverse section through one of the ends of the mat and frame, showing the corrugations. Fig. 3 25 is an end view of the corrugated selvage, showing the additional strengthening-wire and the closely-curled sides. Figs. 4 and 5 are detached views of portions of the frame.

A is the wire-cloth, woven in square meshes 30 of galvanized iron wire or other suitable material of the width desired to be used as the length of the mat, the side edges being woven with a selvage in any known manner, as indicated in Fig. 3, and having an additional 35 stiffening-wire w run through the selvage. This wire-cloth so constructed is cut into strips of the desired width and then corrugated in the ordinary manner by compression, such corrugations running transversely to the 40 selvage and the raw edges turned up and curled tightly, and forming thus a strong and neat finish. It is intended that the mat so formed shall be longer than its width, and that the corrugations shall run lengthwise, 45 so that they shall be presented transversely to the foot of the user, thus distributing the weight placed upon it and manifesting its

ing the soles and sides of shoes. The joints 50 of the crossing wires may be either secured by solder or they may be secured by intertwisting the wires in the process of weaving.

greatest degree of utility as a scraper for clean-

A mat so formed will be durable, strong, light, and inexpensive, and will be complete 55 in itself. I have, however, shown in the draw-

ings such a mat in combination with a sheetmetal frame B in order to guard against possible flattening or spreading of the corrugations from the weight that may be imposed upon them from time to time. This metal 60 frame is made in one piece, bent in a die to such extent and conformation as to receive and inclose the corrugated ends of the mat. It is cut of such length as to extend around and about the four sides of the mat and at 65 each corner, as shown in Fig. 5, and, except at the corner, protected by the meeting of the two ends, as shown in Fig. 4. The frame is slit above and below at an angle of forty-five degrees, bent to a right angle, and the two 70 sharp ears E are bent down and secured to the side of the frame. The ends of the frame, for the purpose of completing the fourth corner, as shown in Fig. 4, are made to clasp each other by means of the hook D and the arms 75 C C. The end B' is passed between the arms C C, the hook D is caught around the end B'. and by bending the arms CC against the end B' the frame will be secured. No solder need be used. Such a frame may be employed on 80 a corrugated woven-wire mat whether or not its ends be curled, as described, and it be provided with selvages.

Having fully described my invention, what I claim is—

1. A woven-wire mat having a selvage on two sides, corrugated transversely to such sides, and with its raw edges curled tightly to form a finish, substantially as described.

2. A foot-mat composed of a corrugated 90 fabric of woven wire and a protecting-frame which is made of one piece of sheet metal bent to inclose and receive the four sides of the mat, having its ends secured at one corner by the hook D and arms CC, and its other 95 corners slit and the sharp ears E E bent down to clasp the side of the frame, substantially as described.

3. As an improved article of manufacture, a foot-mat constructed of woven wire corru- 100 gated throughout its entire area and presenting an unbroken undulating surface, substantially as described.

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

WILLIAM F. BENEDICT.

Witnesses:

ALEXANDER B. BUTTS, N. FINLEY.