

No. 742,475.

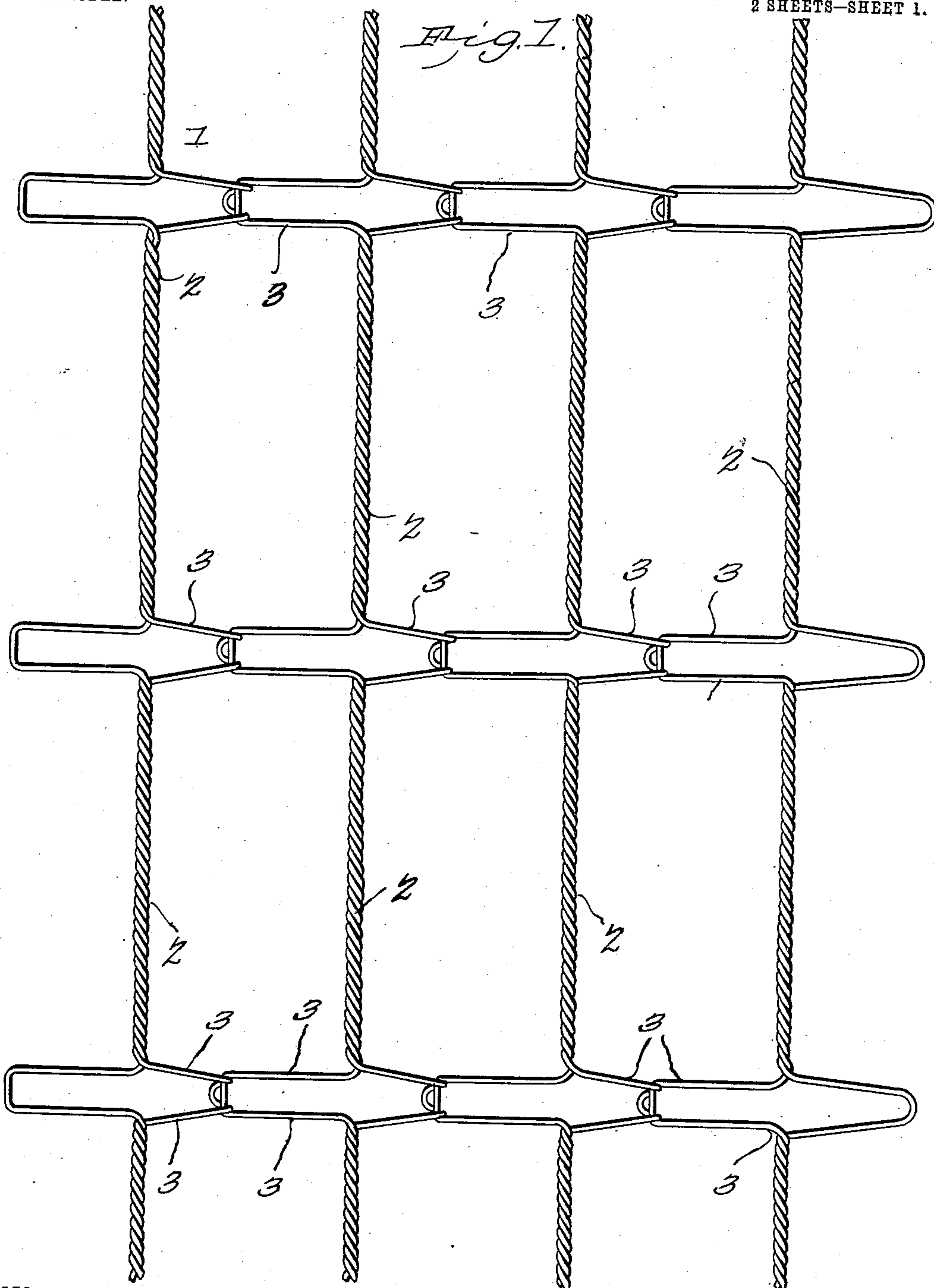
PATENTED OCT. 27, 1903.

G. W. MURRAY.
WIRE STRUCTURE.

APPLICATION FILED JULY 21, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



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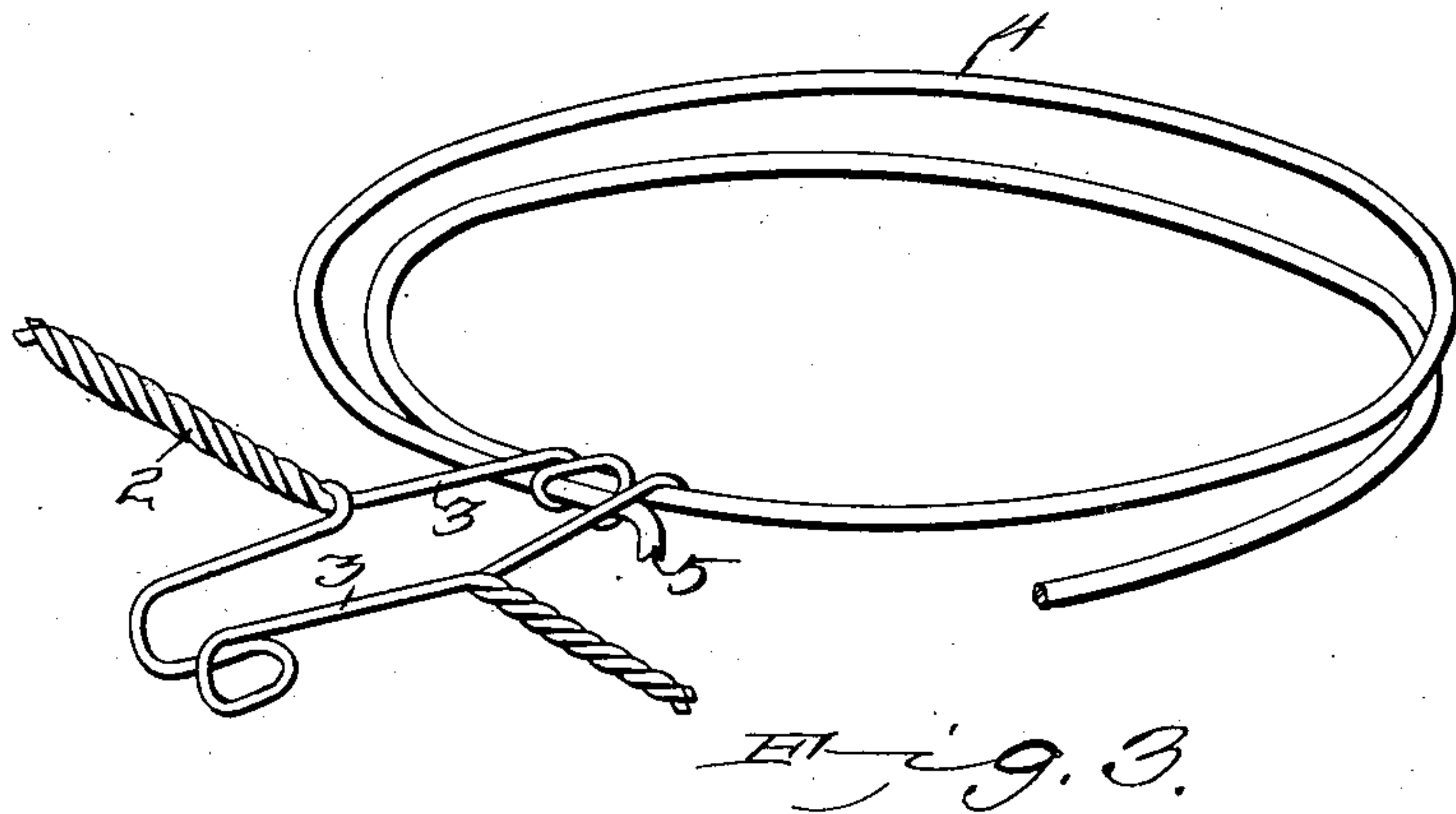
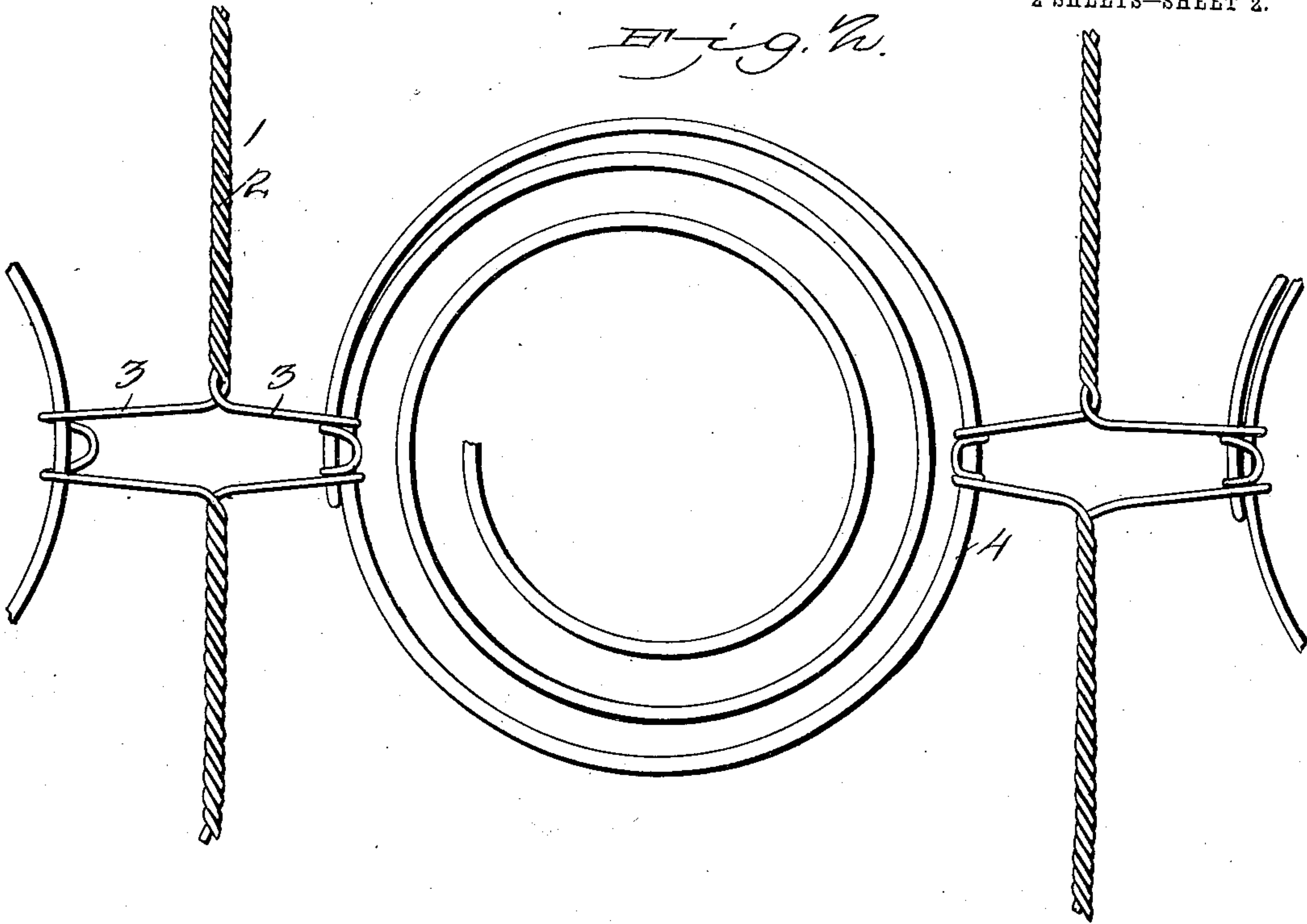
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Witnesses:
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UNITED STATES PATENT OFFICE.

GEORGE W. MURRAY, OF BLUFFTON, OHIO.

WIRE STRUCTURE.

SPECIFICATION forming part of Letters Patent No. 742,475, dated October 27, 1903.

Application filed July 21, 1902. Serial No. 116,435. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. MURRAY, a citizen of the United States, residing at Bluffton, in the county of Allen and State of Ohio, have invented a new and useful Wire Structure, of which the following is a specification.

This invention relates generally to wire structures, and particularly to a device adapted to be associated to present a fence of great strength and durability or to operate as a tie-wire in a spring bed-bottom.

The object of the invention is to present a cheap and thoroughly-efficient structure for the purpose designed which may be readily manufactured and which may be connected in series to present a fence or be secured to the upper and lower whirls of the coiled springs of a bed-bottom to hold them positively associated against slippage.

With these and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a wire structure, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like numerals of reference indicate corresponding parts, there are illustrated two forms of embodiment of the invention each capable of carrying the same into practical operation, it being understood that the elements therein exhibited may be varied or changed as to shape, proportion, and exact manner of assemblage without departing from the spirit thereof.

In the drawings, Figure 1 is a view in elevation of a portion of a wire fence made up of the structure constituting the present invention. Fig. 2 is a view in plan, showing the manner in which the structure is associated with the springs of a bed-bottom. Fig. 3 is a perspective view showing more particularly the manner in which the end of a whirl is secured in place by the structure.

Referring to the drawings, 1 designates the structure, comprising a continuous body portion 2, formed of two wires twisted together and spaced loops or arms 3, projecting in diametrically opposite directions from the sides of the body. Where the structures are connected up in series to present a fence, as shown

in Fig. 1, the members of one of the loops are disposed approximately parallel with each other, while those of the other loop converge slightly in order to permit ready insertion between the first-named loop of an adjacent structure, as will readily be understood by reference to the said figure. The assemblage between the sections or structures is effected by bending a narrow end portion of one loop around the crest of the bend of the other loop, and by this simple procedure positive assemblage of the structures is effected. As shown in Fig. 1, the structures are vertically disposed—that is to say, the body portions occupy a vertical plane; but it is to be understood that, if preferred, the body portions may be disposed in a horizontal plane and still be within the scope of the invention. When positioned in the latter manner, upon draft being applied to the body portions the loops will open and will thus permit of the requisite expansion to obviate damage to the fence from cold.

In Figs. 2 and 3 the structure is shown as applied to coiled springs 4 of a bed-bottom. One of the arms of one of the structures is shown as encircling a single loop or whirl, while the arm of the other structure is shown as secured to two of the whirls, the terminal of the whirl being bent downward, as shown at 5, to present a stop to be engaged by the bent portion of the arm, and thus firmly hold the said terminal from disconnection.

The structure as a whole may be readily and cheaply made and may be furnished in lengths or reels, to be employed as desired.

Where a fence is constructed of the structure shown, it will be thoroughly effective in resisting both longitudinal and vertical strains, as by the manner of connecting the succeeding arms of the structure their accidental separation will be positively obviated.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A structure for the purpose specified, comprising a twisted body portion formed from a plurality of turns of wire, and diametrically opposite laterally-disposed loops, one of said loops being provided with means for interlocking with a corresponding loop on a similar structure.

2. A structure for the purpose specified,
comprising a twisted body portion consisting
of a plurality of turns of wire and spaced dia-
metrically opposite laterally-disposed arms
5 one of which is reduced in width toward its
extremity, and the end thereof formed into a
hook.

3. A structure for the purpose specified,
comprising a body portion consisting of a plu-
10 rality of turns of wire and spaced diametric-
ally opposite lateral loops one of which is re-

duced in width toward its extremity and is
provided with means for interlocking with a
corresponding loop on a similar structure.

In testimony that I claim the foregoing as 15
my own I have hereto affixed my signature in
the presence of two witnesses.

GEORGE W. MURRAY.

Witnesses:

WM. F. BLOOM,

HENRY L. ROMNEY.