

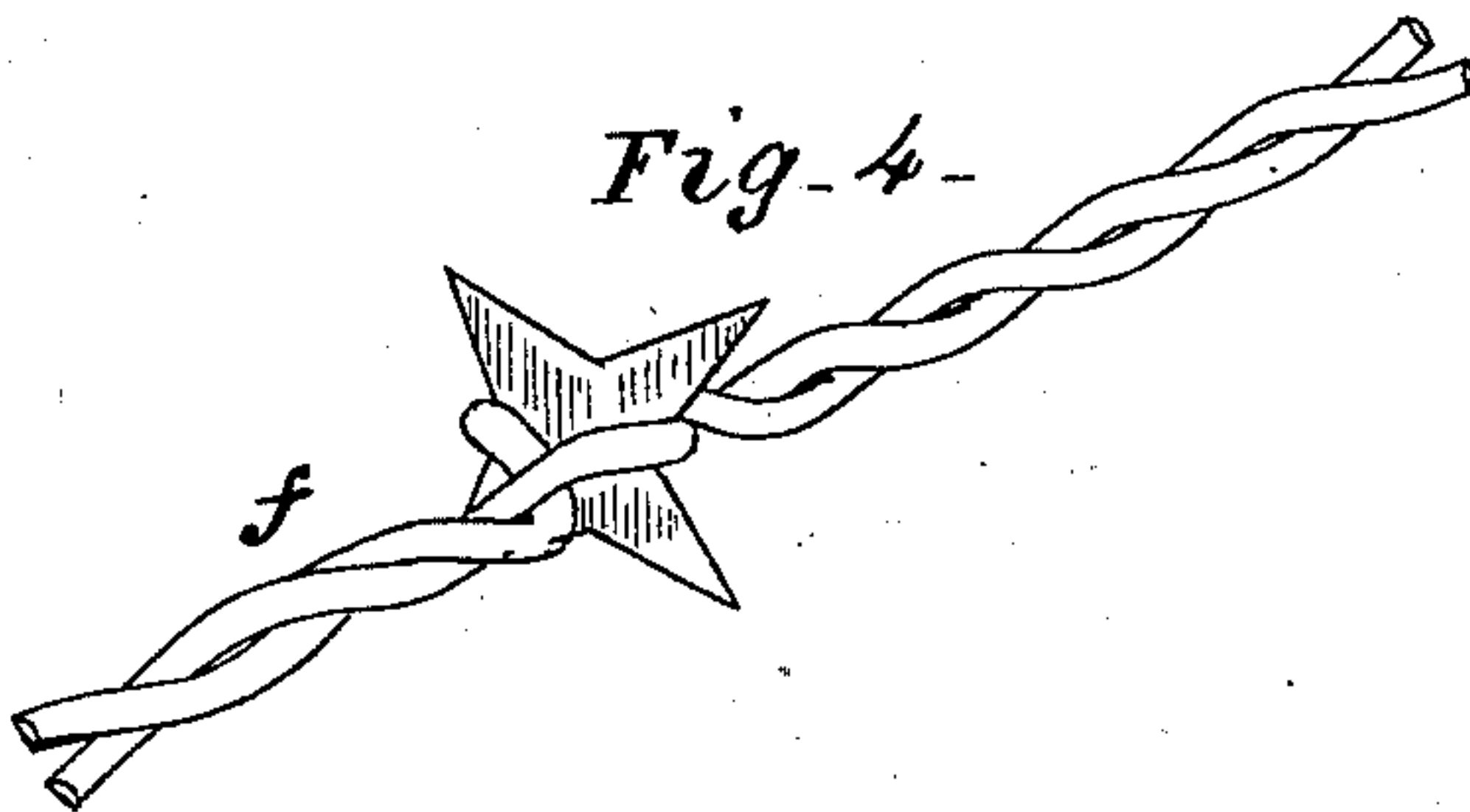
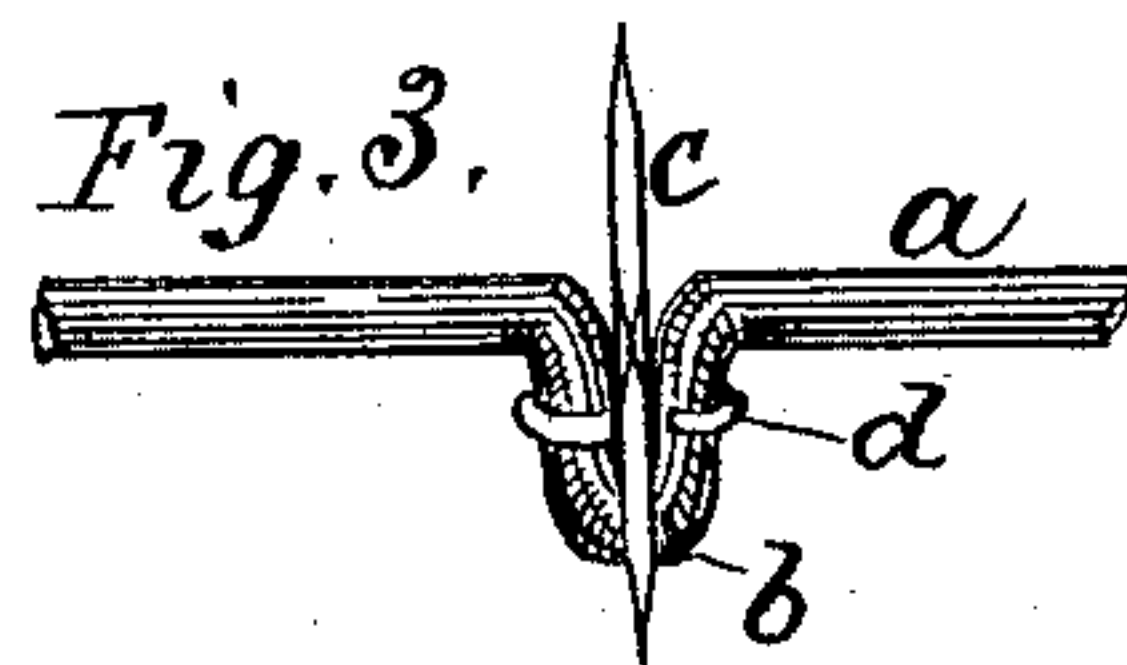
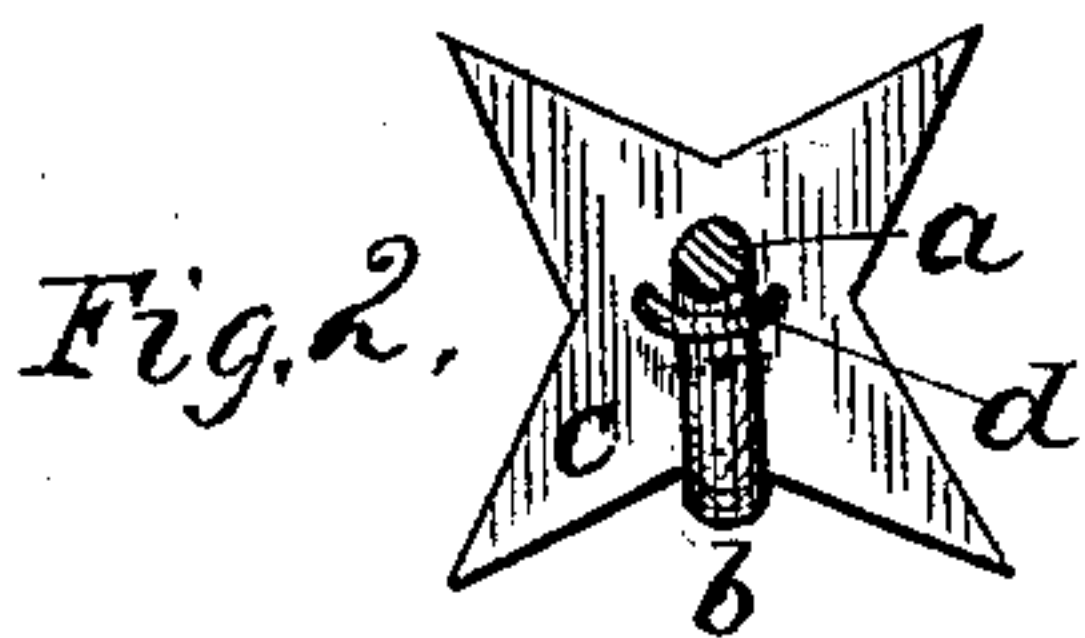
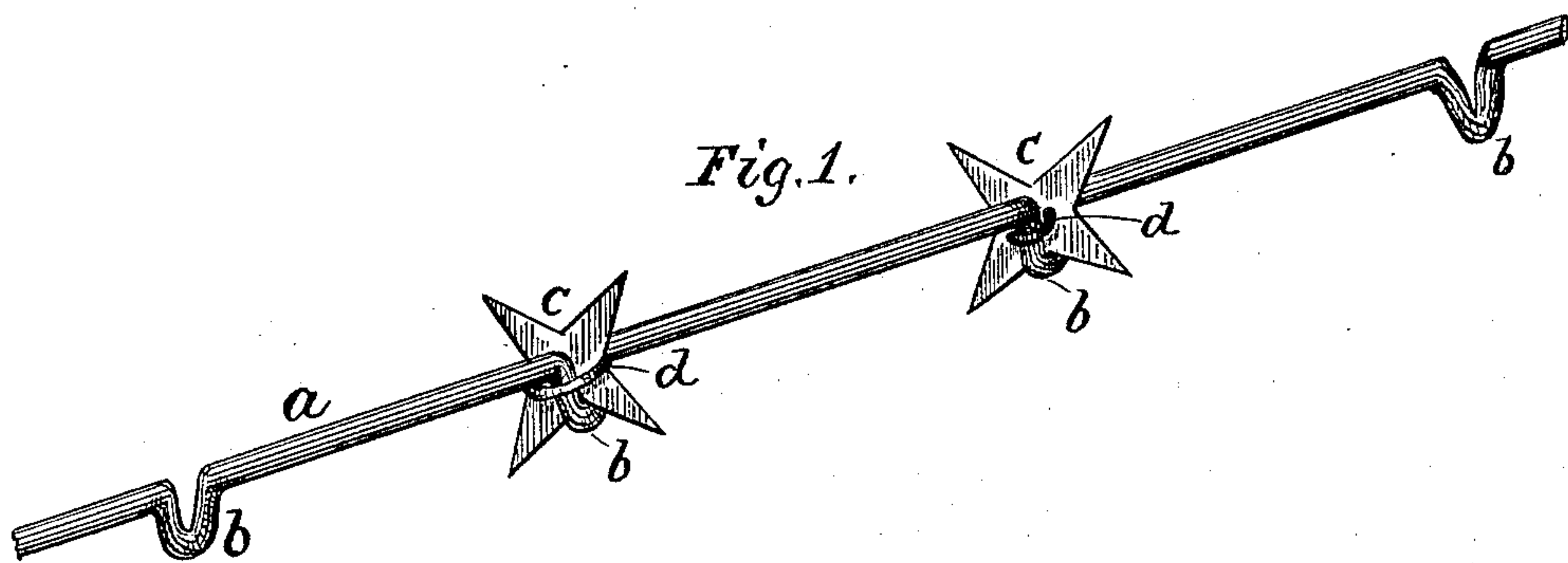
(No Model.)

T. H. MORGAN.

BARBED WIRE.

No. 302,275.

Patented July 22, 1884.



Witnesses:
C. B. Bostwick
A. Hartup

Inventor.
Thomas H. Morgan
Per. C. D. Lewis
Attorney

UNITED STATES PATENT OFFICE.

THOMAS HENRY MORGAN, OF PITTSBURG, PENNSYLVANIA.

BARBED WIRE.

SPECIFICATION forming part of Letters Patent No. 302,275, dated July 22, 1884.

Application filed December 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. MORGAN, a subject of the Queen of Great Britain, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in the Construction of Barbed Wire for Fencing, of which the following is a specification.

My invention relates to the fastening of stelliform pieces of sheet metal at separate places to and along a single wire or two or more wires twisted together, whereby the sharp radial points of such stelliform pieces shall stand out from the wire or wires in a direction at right angles to its length, and in such a manner as to deter cattle from attempting to get over or through a fence so constructed.

The nature of my invention will be readily understood from the following description, taken in connection with the accompanying drawings, wherein—

Figure 1 represents a single wire that by sundry bendings is made to receive and is fitted with star-shaped sheet-metal barbs in accordance with my invention; Fig. 2, a transverse section of the same; Fig. 3, a side elevation of such section; Fig. 4, two wires twisted together, supporting between them a star-shaped piece of sheet metal.

To put the improvement I have made into practice, pieces of sheet metal are by means of suitable dies cut into the form of a star having four, five, or six points, as may be most desirable. A single wire, *a*, is then provided, along which and at regular intervals a series of V-shaped bends or loops, *b*, are formed, that extend outwardly at right angles, or nearly so, to the direction of its length. Edgewise in each of these V-shaped bends or loops *v* one of

the stelliform sheet-metal pieces *c* is placed, in such a manner as that the innermost corner between two of its points shall rest upon the wire at the deepest portion of its loop, and with such relative position thereto as that the center of the star shall coincide with the axis of the main line. Each star-shaped piece is then secured and made rigidly fast within its respective loop by winding a small flexible wire, *d*, around the loop and star; or, if desired, one or more small holes may be punched through the stelliform pieces, and the small binding-wire passed through such holes and wound about the loop. Where a cable, *f*, is formed of two wires twisted together, one of which is provided with loops or angular bends for the reception of the star-shaped pieces, no extra binding-wire is used or necessary, as the star-barbs then become so intertwisted with the wire as to prevent any displacement by ordinary means.

This fencing is very simple in construction, and, although exceedingly light, is sufficiently strong, and, by presenting an object of considerable size, is easily seen and avoided by animals.

Having thus briefly described my invention, I claim—

The combination of a single wire provided with angular V-shaped bends or loops, and stelliform pieces of metal, one of which is secured in each of said loops by a binding of smaller wire, in the manner shown and set forth.

THOMAS HENRY MORGAN.

Witnesses:

JOHN S. KENNEDY,

C. B. BOSTWICK.