

(No Model.)

B. SCARLES.

WIRE FENCE.

No. 388,311.

Patented Aug. 21, 1888.

Fig. 1.

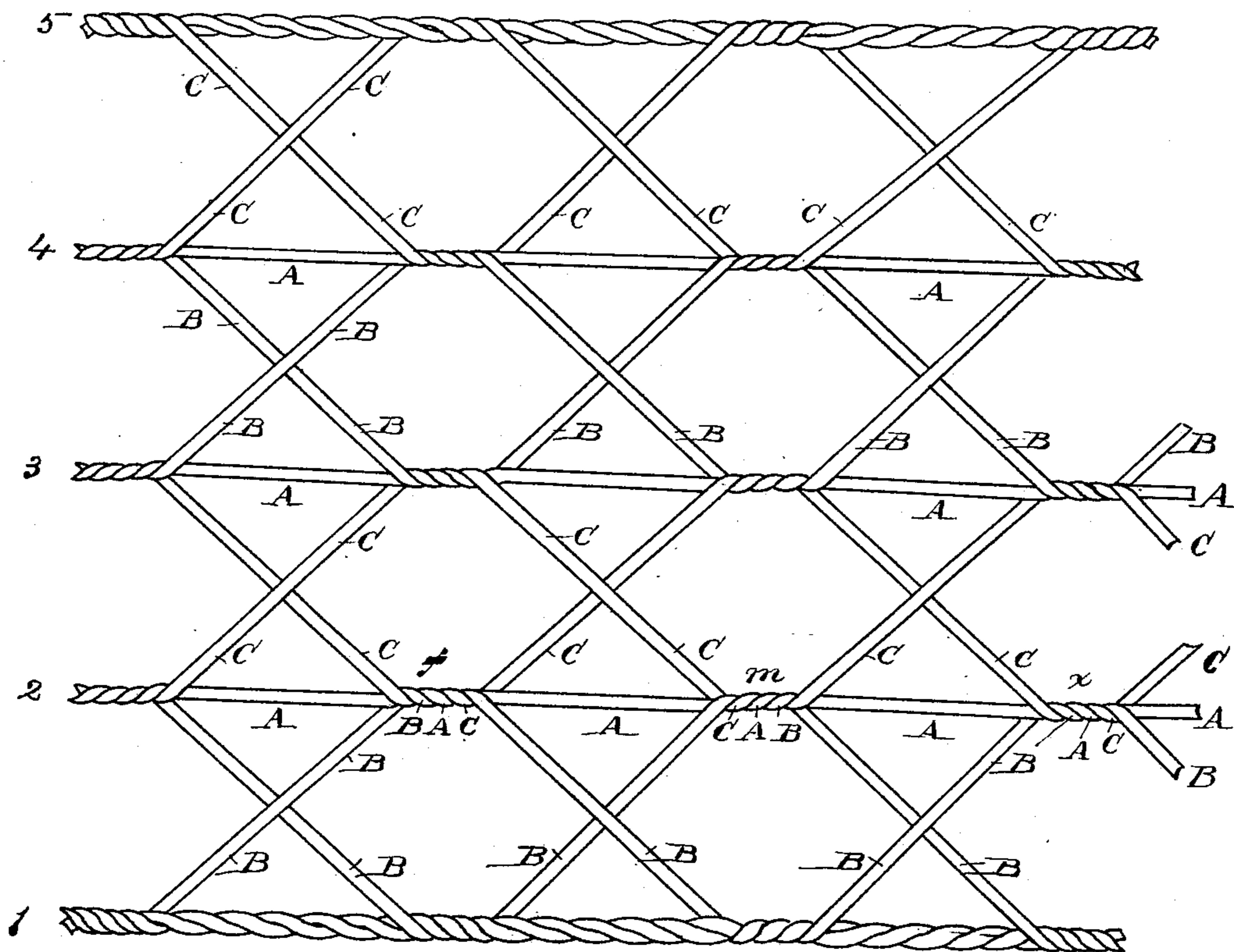


Fig. 2.

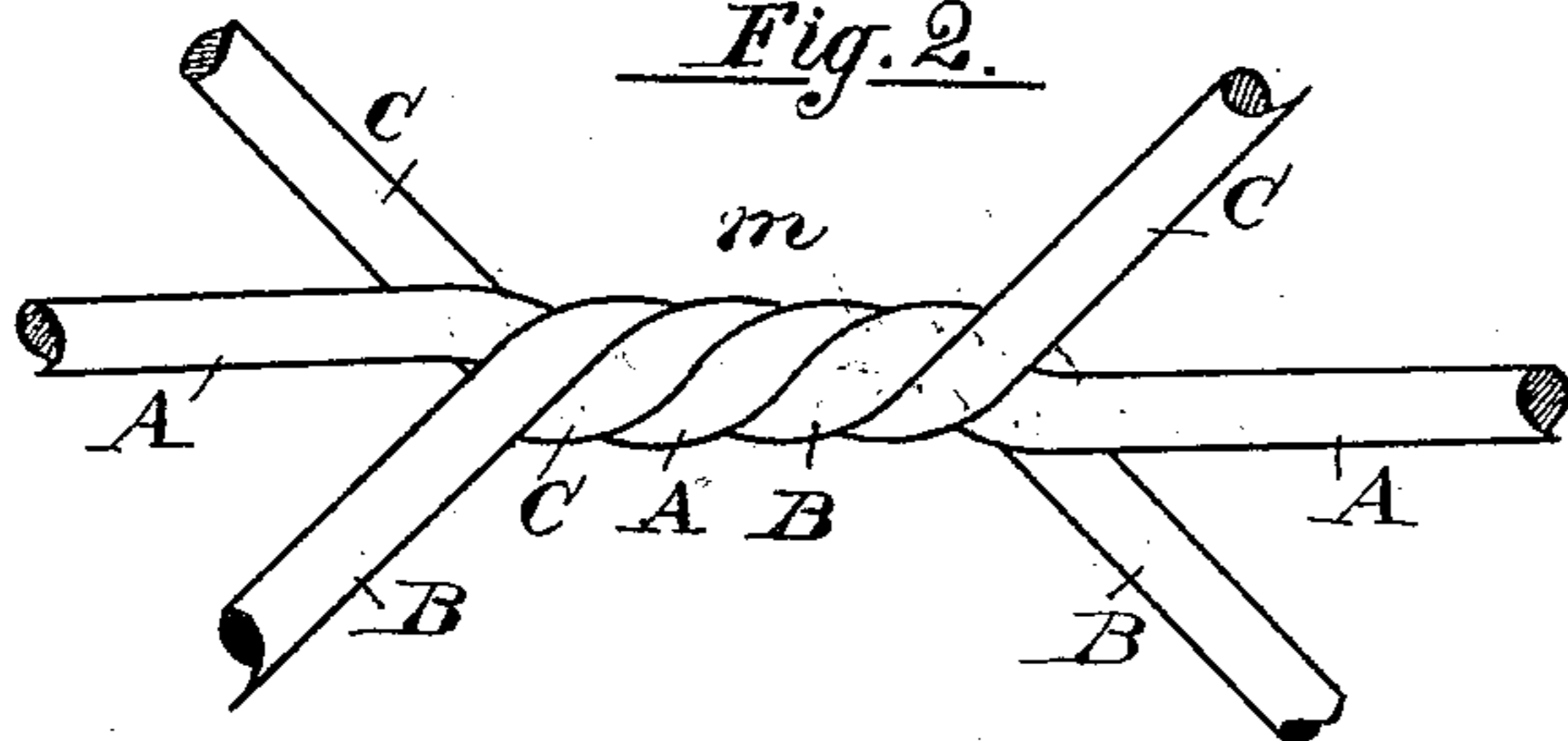
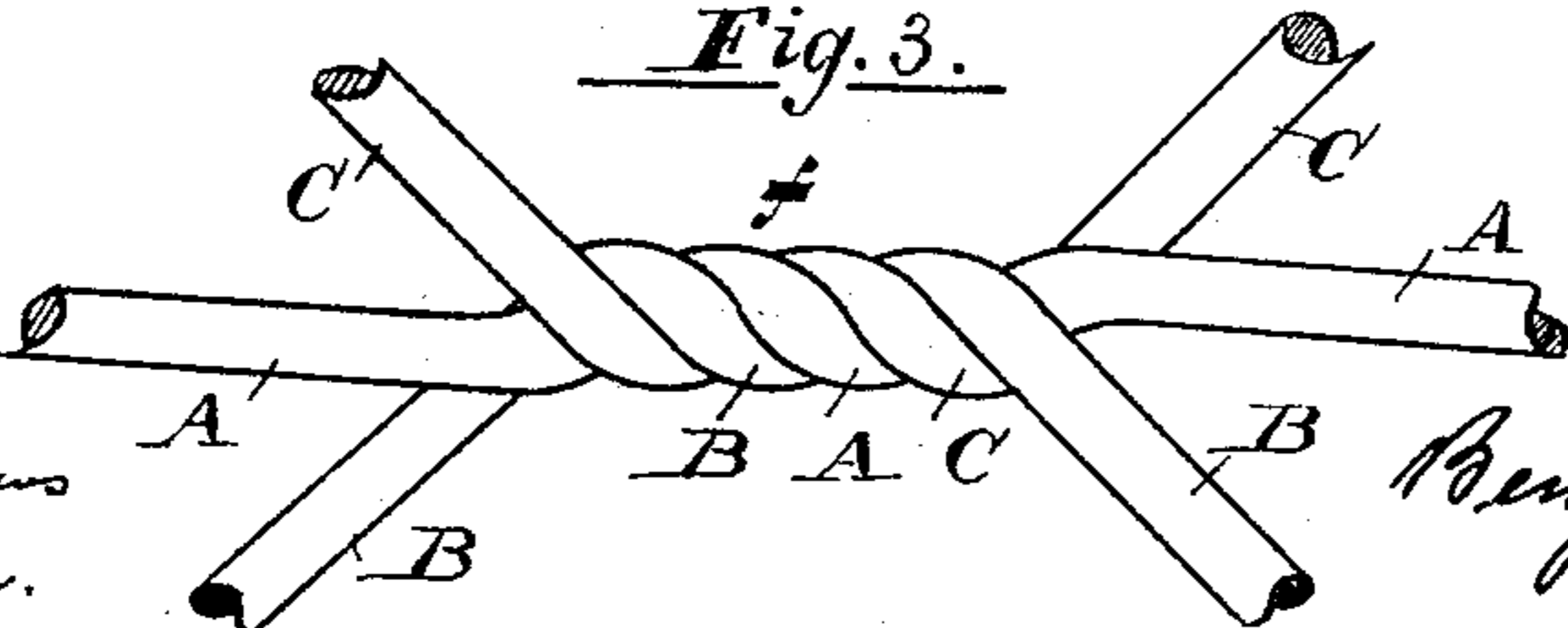


Fig. 3.



Witnesses:

Robt W. Matthews
E. L. Sawyer.

Inventor:

Benjamin Scarles,
per C. A. Shawler,
Attys.

UNITED STATES PATENT OFFICE.

BENJAMIN SCARLES, OF CLINTON, MASSACHUSETTS, ASSIGNOR TO THE
CLINTON WIRE-CLOTH COMPANY, OF SAME PLACE.

WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 388,311, dated August 21, 1888.

Application filed July 21, 1887. Serial No. 244,850. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN SCARLES, of Clinton, in the county of Worcester, State of Massachusetts, have invented a certain new and useful Improvement in Wire Fence, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, formings part of this specification, in which—

Figure 1 is an elevation of a piece of my improved fence, and Figs. 2 and 3 enlarged views of the joints.

Like letters and figures of reference indicate corresponding parts in the drawings.

My invention relates to that class of wire fence which is provided with body-wires; and it consists in a novel construction and arrangement of parts, as hereinafter more fully set forth and claimed, the object being to produce a more desirable article of this character than is now in ordinary use.

The nature of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the body-wires and B C the filling-wires.

For convenience of reference I have marked the filling-wires from 1 to 5, respectively, and in order to explain the construction of the fence more clearly will refer specially to body-wire No. 2, the joints of which I have marked *f m x*, respectively, an enlarged view of joint *m* being shown in Fig. 2, and a like view of joint *f* in Fig. 3. Each of the joints is composed of two of the filling-wires and a body-wire, these wires being all twisted together or coiled around each other, instead of leaving the body-wire straight and coiling the filling-wires around it.

My improved construction is best seen in Figs. 2 and 3, where it will be observed that a coil of the body-wire A appears at the center of the joint with a coil of the filling-wire B at one side and a coil of the filling-wire C at its opposite side, the wires being intertwined with uniform coils. This method of

constructing the joints gives great rigidity and strength to the fence, as the filling-wires are firmly interlocked with the body-wires and prevented from slipping longitudinally thereon. The filling-wires also are arranged diagonally, and cross each other at nearly right angles between the adjacent body-wires, as shown at *t*, thus bracing the fence and increasing its strength.

The filling-wires B, which enter into the construction of the joint *f*, do not form a part of the joint *m*, but pass that joint and form a part of the joint *x*, and the same applies to the filling-wires C. The coils in the joints *x f* incline to the left and those in the joint *m* to the right, this order being maintained throughout the fence, and also tending to increase its rigidity.

The body-wires 1 and 5 consist of cables, or are composed of two strands each; but they may be composed of two or more strands, or single wires may be used, as preferred.

Having thus explained my invention, what I claim is—

1. In a wire fence composed of longitudinal body-wires A and oblique filling-wires B C, the herein-described joint between said wires, comprising a single complete coil of the body-wire and one and a half coils of each filling-wire, the three wires being twisted together and coiled around each other, and the center of the body-wire coil being in the center of the joint.

2. The improved wire fence herein described, composed of a series of horizontally-arranged body-wires, A, and oblique filling-wires B and C, connecting said body-wires, the joint between said wires comprising a single complete coil of the body-wire and one and a half coils of each filling-wire, the three wires being twisted together and coiled around each other, and the center of the body-wire coil being in the center of the joint, the coils of each body-wire being twisted alternately in opposite directions.

3. The improved wire fence herein described, composed of a series of horizontally-arranged body-wires, A, the upper and lower members whereof comprise a number of

strands twisted into a cable, and oblique filling-wires B and C, connecting said body-wires, the joint between said wires comprising a single complete coil of the body-wire and one
5 and a half coils of each filling-wire, the three wires being twisted together and coiled around each other, and the center of the body-wire coil being in the center of the joint, the coils of each body-wire being twisted alternately in opposite directions.

BENJAMIN SCARLES.

Witnesses:

A. B. ALLEN,
A. HELMOLD.