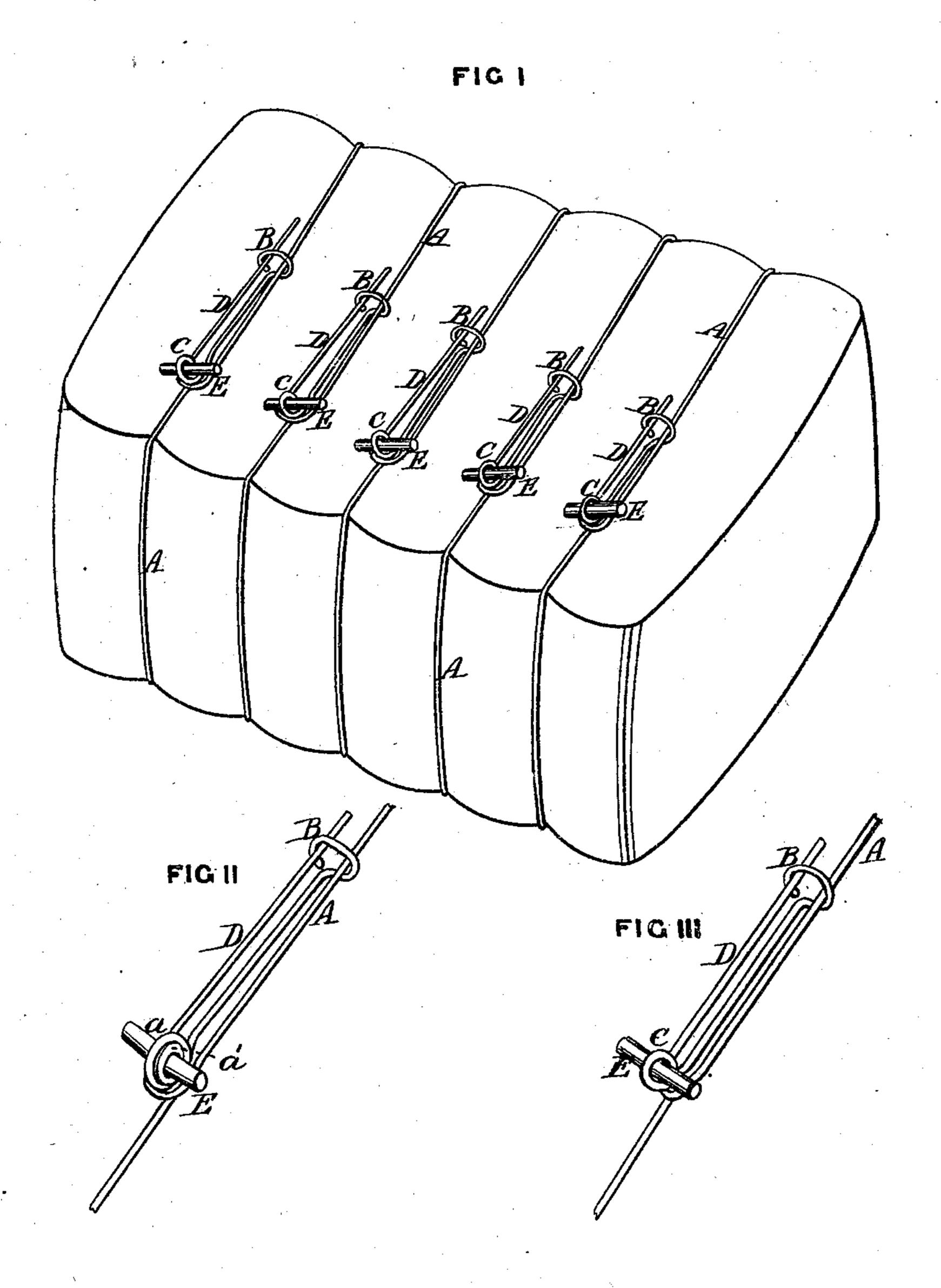
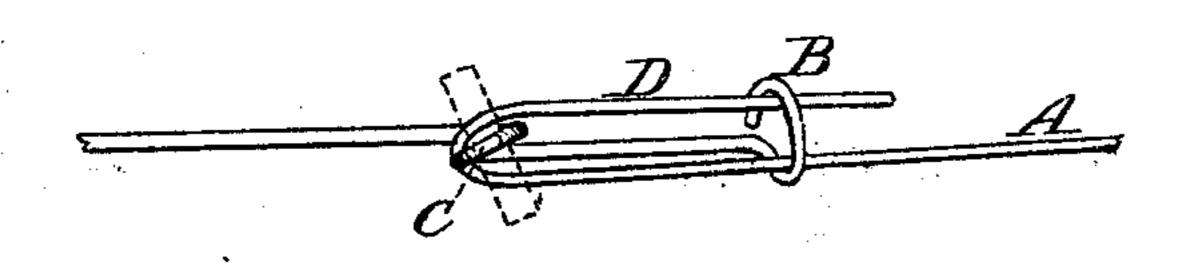
J. W. PHILP. Bale-Ties.

No. 158,733.

Patented Jan. 12, 1875.



FIGIV



WITNESSES

John E. Laing. J.A. Richerford Ino. W. Philp-By Johnson and Johnson his Attipe.

UNITED STATES PATENT OFFICE.

JOHN W. PHILP, OF HUMBOLDT, TENNESSEE.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. 158,733, dated January 12, 1875; application filed December 10, 1874.

To all whom it may concern:

Be it known that I, John W. Philp, of Humboldt, in the county of Gibson and State of Tennessee, have invented certain new and useful Improvements in Cotton-Bale Ties; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of cotton and other bale ties, consisting of strands of wire, which are drawn around the bale and locked at their ends; and it has for its object to furnish a more effective and secure method of fastening wire bale-ties than has been heretofore proposed. The invention consists of a tie formed by a laterally-bent hook and a single or double eye or coil upon the same strand, with the tie end of the wire drawn round the base of the coil or eye, to be interlocked with said hook, in combination with a short pin driven into the coil, so as to overlay the bent sides of the tie end and clamp and hold it firmly round the coil and upon the strand from which the coil is formed, whereby the draft-strain of the bale is effectually resisted and the tie end held fast upon the back of the coil with a bearing that makes such hold or biting action as to prevent any possible slipping of the tie end over said coil.

In the accompanying drawings, Figure 1 represents a bale with wire tie having a single coiled eye for the locking-pin. Fig. 2 represents a tie provided with a double coiled eye for the locking-pin; and Figs. 3 and 4, enlarged views of the single-coiled eye-tie.

In wire ties great difficulty has been experienced in obtaining a secure and permanent fastening of the ends of the same after they have been passed around the bale. In the use of an eye and hook fastening the draft-strain of the bale tends to produce the separation of the ends of the tie, and, furthermore, it is inconvenient to employ eyes and engaging-hooks, as they must necessarily

be arranged at a stated or regular distance from each other.

I propose to band or tie bales of cotton and other materials by wire strands or bands A, which are drawn around the bale and secured in a novel manner. On one end of the strand or wire band is formed a hook, B, by bending the wire first to the left, then to the right, and finally in an inward direction or toward the bale. At a suitable distance from the hook, and on the same end portion of the tie or wire strand, is formed a coil or eye, C, which may be either single or double, as shown in the drawings. The single coil is formed by bending or twisting the wire strand once, and the double coil by bending the wire twice, the outer twist a of the wire crossing the inner one, a'. The hook and coil, formed on one portion of the tie, are designed to secure the opposite tie end D, the same being drawn, by any suitable means, over or around the coil, on the outside thereof, at its base, and then extended in a direction parallel to the end portion having the hook and coil, so as to cause its free end to pass through the hook, which serves to secure it firmly in a locked position. A short pin, E, is driven in the coil. to prevent it from being drawn out of shape by the draft-strain of the bale, and to clamp the tie end hard upon the strand on which the coil is made, and preventing, also, the bent wire from slipping on the coil, as it is located on the outside thereof and has its bearing against the back of the coil at the point where it rises from the wire, on which it is formed.

I claim—

The wire bale-tie having a hook, B, and a single or double coil, C, formed upon the same strand, in combination with the tie end, passed round the base of the coil, and a clamping locking-pin, E, driven through said coil above the bent tie end, substantially as and for the purpose set forth.

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

JOHN W. PHILP.

Witnesses:

JNO. COULTER, L. C. SHARP.