(No Model.)

W. F. REDDING.

BINDING FOR BOXES OR CRATES.

No. 325,969. Patented Sept. 8, 1885.

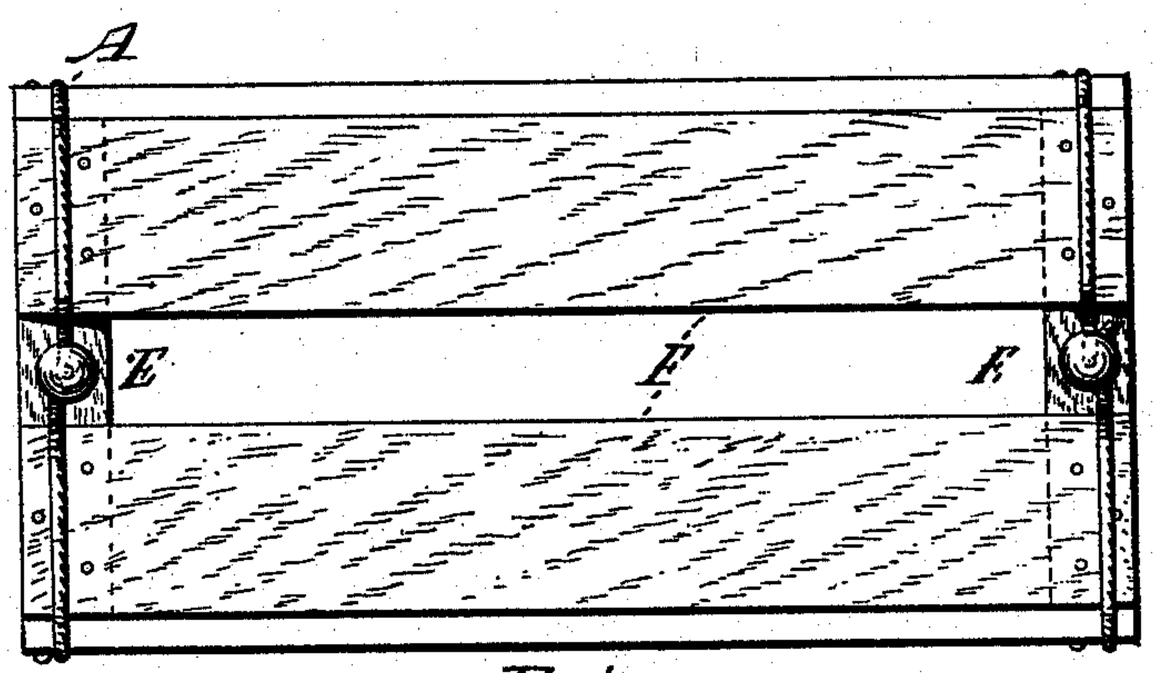

Fig. 1

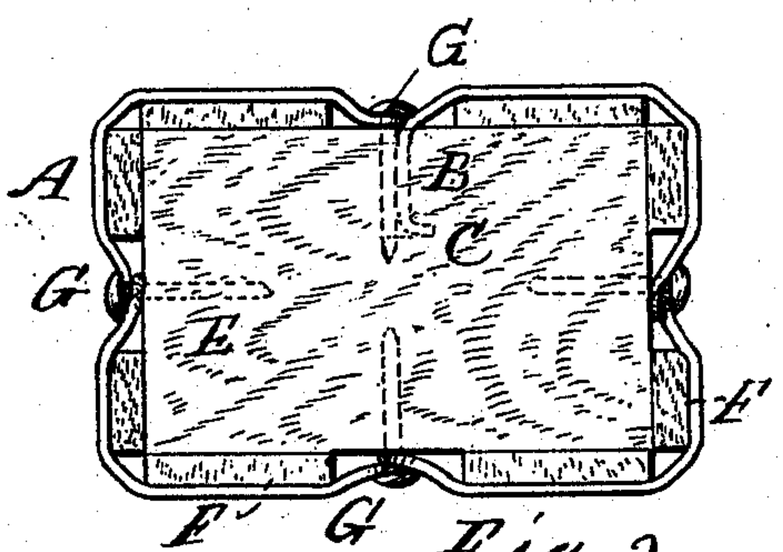

Fig. 2

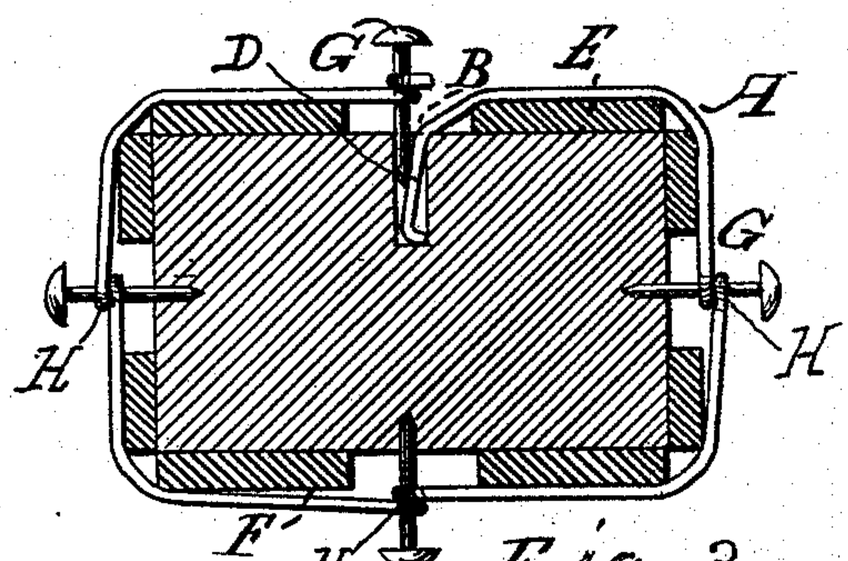

Fig. 3

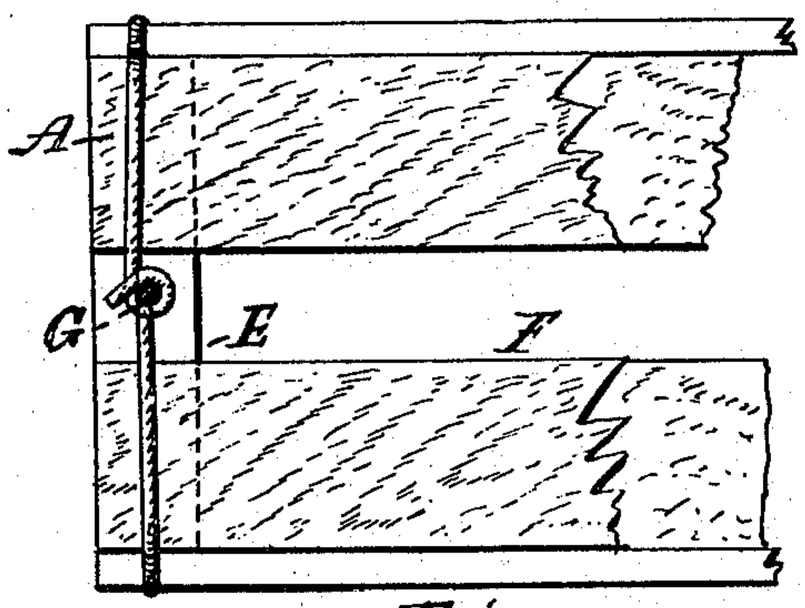

Fig. 4

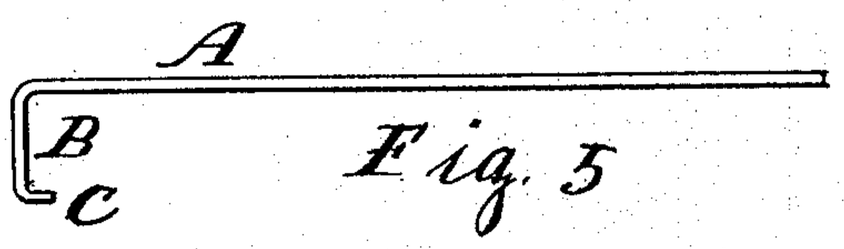

Fig. 5

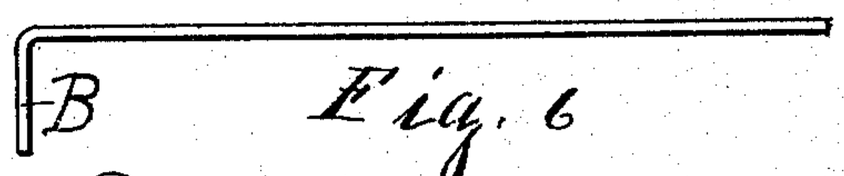

Fig. 6

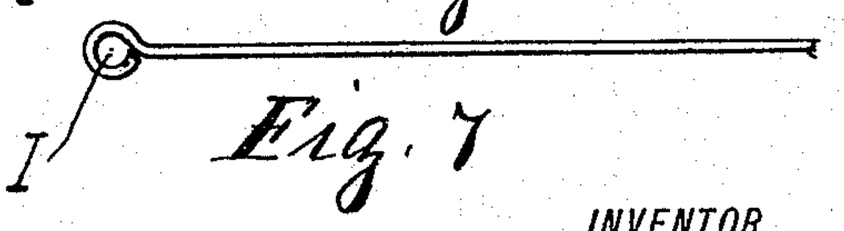

Fig. 7

WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM F. REDDING, OF TANGERINE, FLORIDA.

BINDING FOR BOXES OR CRATES.

SPECIFICATION forming part of Letters Patent No. 325,969, dated September 8, 1885.

Application filed June 18, 1885. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. REDDING, of Tangerine, in the county of Orange and State of Florida, have invented a new and useful Improvement in the Binding for Boxes or Crates; and I do hereby declare the following to be a full and exact description of the same, reference being had to the drawings herewith presented.

My invention relates to an improvement in the binding for boxes and crates to protect them in transportation, securing greater strength and economy in time, and the expense of the binding; and it consists in the use of strips of annealed wire, formed with such devices as to connect them with nails used to secure them in position, and so also that the said nails, driven down closely, shall effect a tension on the wire, giving it the force of a clamp on the package, the box or crate making it more secure than with the ordinary "strapping," and in combination with a box or crate, all substantially as hereinafter set forth.

Figure 1 is a plan view. Figs. 2 and 3 are end views of the same at different stages of the binding. Figs. 4, 5, 6, and 7 are detailed views.

For my binding I use annealed wire A, and prepare one end with a flange or hook, B, bent off at a right angle and terminated with a return point, C. For using this wire I make a hole, D, (see Fig. 3,) in one edge of the headpiece E between the slats F of a crate, sufficiently large to let this flange B with the point C slip down into it, when a nail, G, is driven into the hole D, on the outside of the flange, far enough to hold it in place. (See Fig. 5.) Then the wire is drawn tightly over the corner of the crate and to another space between the slats, and another nail is driven part way into the head, and the wire is given one turn around the nail, forming a loop, H, and the wire is carried around to nails on the third and fourth sides and looped in the same way, and the end is then carried on to the first nail, and, by one or more turns, is looped around it and cut off. This nail, engaging both ends of the wire, is then driven down close, pressing the point C into the wood, (see Fig. 2,) and the others driven in the same way. The head of each of the nails will press the wire down into the spaces and secure a strong tension on the wire, clamping the crate very tightly.

The same devices are used for the binding of boxes of any description requiring strapping for protection, and there is no difference, except that the nails driven down into the side of a board will effect a tension on the wire by being countersunk by close driving into the board. So many nails will be put in, and so many loops made in the wire as will be required by the size of the box to give it entire protection; or these loops H may be made in the wire beforehand at certain intervals, and then the wire is put around the box or crate, and the nails will be driven into the wood through the loops; and where boxes are of any uniform size, for any particular class of goods, it would be preferable to do this, as the wires would be manufactured and furnished ready for use with the loops, &c., as required. In either case the result would be the same whether the loops were made first or around the nails; therefore

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In combination with a box or crate having the recess D, the wire A, having the flange B, and the loops H, secured in position about said box, and made taut by nails G, substantially as and for the purpose specified.

2. In combination with the box or crate, having a recess, D, the wire A, having the flange B, the said flange also provided with the point C, and secured by the nail G, substantially as and for the purpose set forth.

WILLIAM F. REDDING.

Witnesses:

HORACE HARRIS,

JOS. R. DENNIS.