

(No Model.)

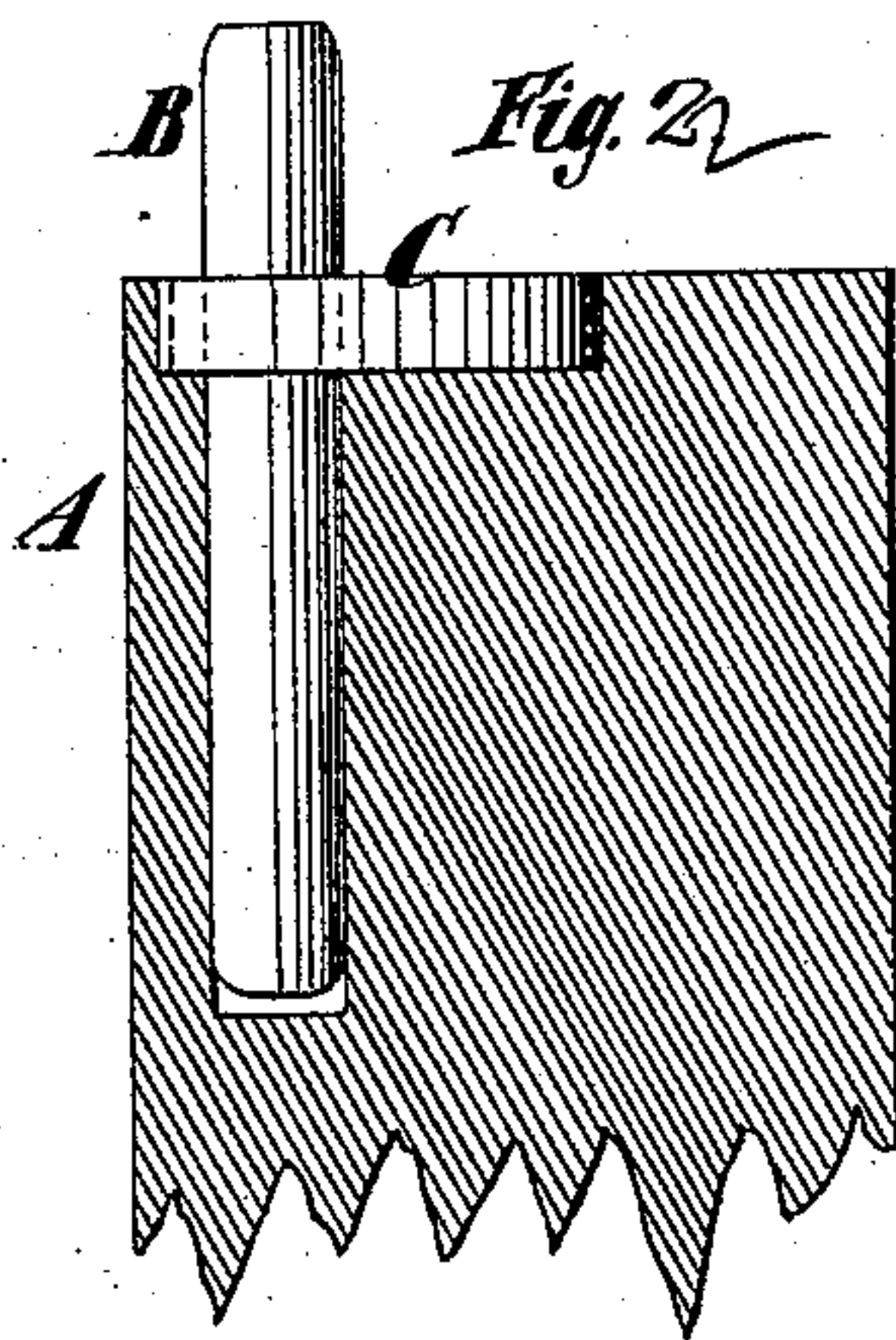
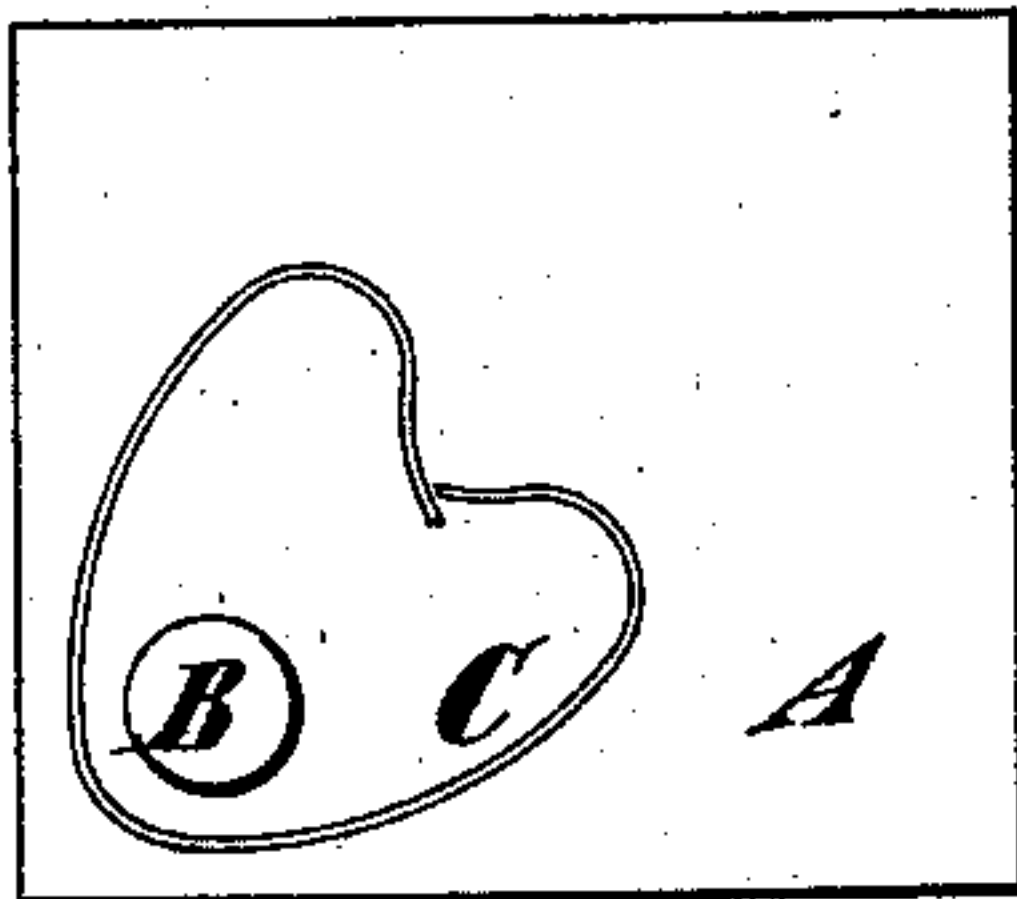
A. F. GERALD.

MEANS FOR SUSTAINING DOWEL PINS AND HINGE PINS.

No. 293,646.

Patented Feb. 19, 1884.

Fig. 1.



Witnesses:

Charles Hall
James R. Bowen

Inventor:

Amos F. Gerald,
by his attorney,
Edwin H. Brown

UNITED STATES PATENT OFFICE.

AMOS F. GERALD, OF FAIRFIELD, MAINE, ASSIGNOR TO THE GERALD SEWING MACHINE CABINET COMPANY, OF NEW YORK, N. Y.

MEANS FOR SUSTAINING DOWEL-PINS OR HINGE-PINS.

SPECIFICATION forming part of Letters Patent No. 293,646, dated February 19, 1884.

Application filed July 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, AMOS F. GERALD, of Fairfield, in the county of Somerset and State of Maine, have invented a certain new and useful Improvement in Means for Sustaining Dowel-Pins or Hinge-Pins, of which the following is a specification.

Dowel and hinge pins made of metal or wood and inserted into pieces of wood are apt, when subjected to great strain, to break away or split the pieces of wood into which they are inserted.

The object of my present invention is to obviate this occurrence.

To this end the improvement consists in the combination, with a dowel or hinge pin and a piece of wood into which it is inserted or to be inserted, of a strip of metal inserted into the piece of wood so as to extend around the pin and into a portion of the piece of wood at some distance from the pin.

In the accompanying drawings, Figure 1 is an end view of a piece of wood, having inserted into it a dowel-pin or hinge-pin, and also a strip of metal, in accordance with my invention; and Fig. 2 is a longitudinal section of the piece of wood, and a side view of the pin and strip of metal.

Similar letters of reference designate corresponding parts in both figures.

A designates a piece of wood, which may form part of a door.

B designates a pin, which forms one of a pair of hinge-pins, whereby the article of which the piece of wood A forms part is hinged in place. This pin is round, and is preferably made of metal. It is inserted in one end of the piece of wood A, close to one corner thereof. So thin is the wood between this pin and the adjacent corner of the piece of wood A that any severe strain upon the pin would break the wood away and loosen the pin.

C designates a strip of metal, preferably steel, which is bent to surround the rod, and is driven into the end of the piece of wood A. It extends close to the pin at the point where the wood is apt to be broken away by a strain upon the pin, but it extends considerably beyond the pin in the opposite direction. As shown, this strip of metal is bent lengthwise into the shape of a heart, and is then driven into the piece of wood. The obtuse point of the heart surrounds the pin, and the ends of the strip are bent into proximity at the place where the opposite indentation of the heart occurs. I have found that this shape is very advantageous. The strip gets a good hold on portions of the piece of wood which are distant from the pin, and hence it will brace and hold the pin firmly.

The strip of metal need not be of any great depth, as it will prove efficacious, even if it sustain but the upper portion of the pin.

Dowel-pins may be braced in the same way as hinge-pins.

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

1. The combination, with a dowel or hinge pin and a piece of wood into which it is inserted or to be inserted, of a strip of metal inserted into the piece of wood so as to extend around the pin and into a portion of wood at some distance from the pin, substantially as specified.

2. The combination, with a dowel or hinge pin and a piece of wood into which it is inserted or to be inserted, of a strip of metal bent into the shape of a heart and inserted into the piece of wood so that the obtuse point will extend close to the pin, substantially as specified.

AMOS F. GERALD.

Witnesses:

T. J. KEANE,
JAMES R. BOWEN.