

(No Model.)

R. I. FANCHER.

WOODEN PLUG.

No. 293,726.

Patented Feb. 19, 1884.

Fig. 1.

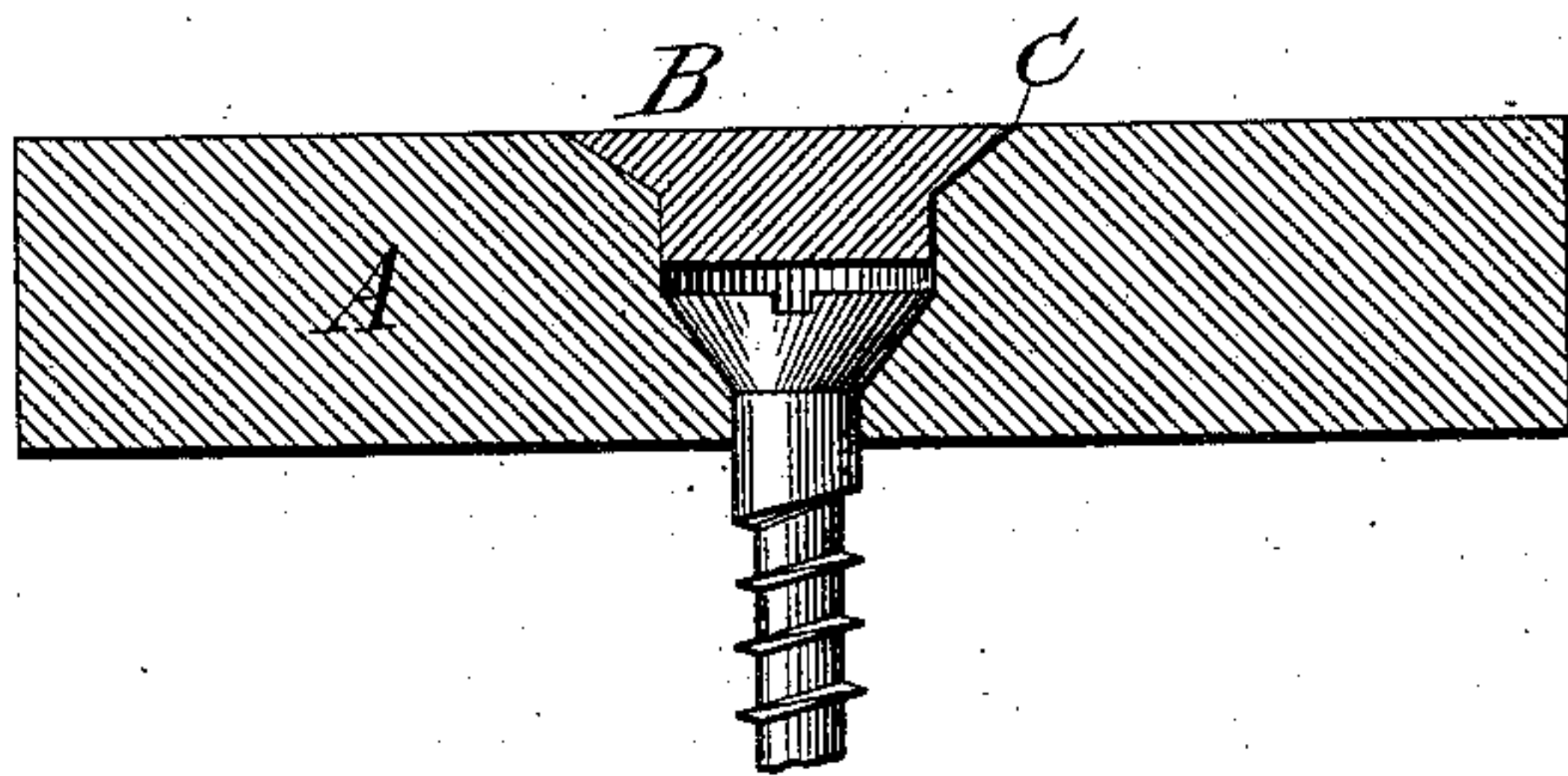


Fig. 2.

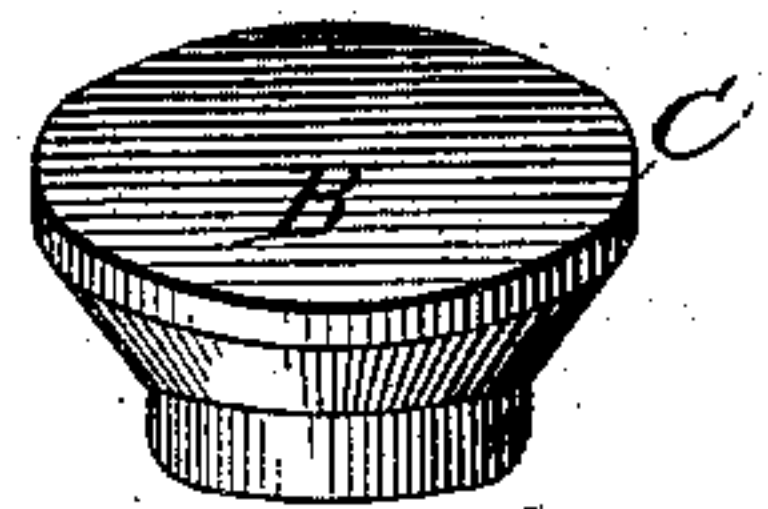


Fig. 3.

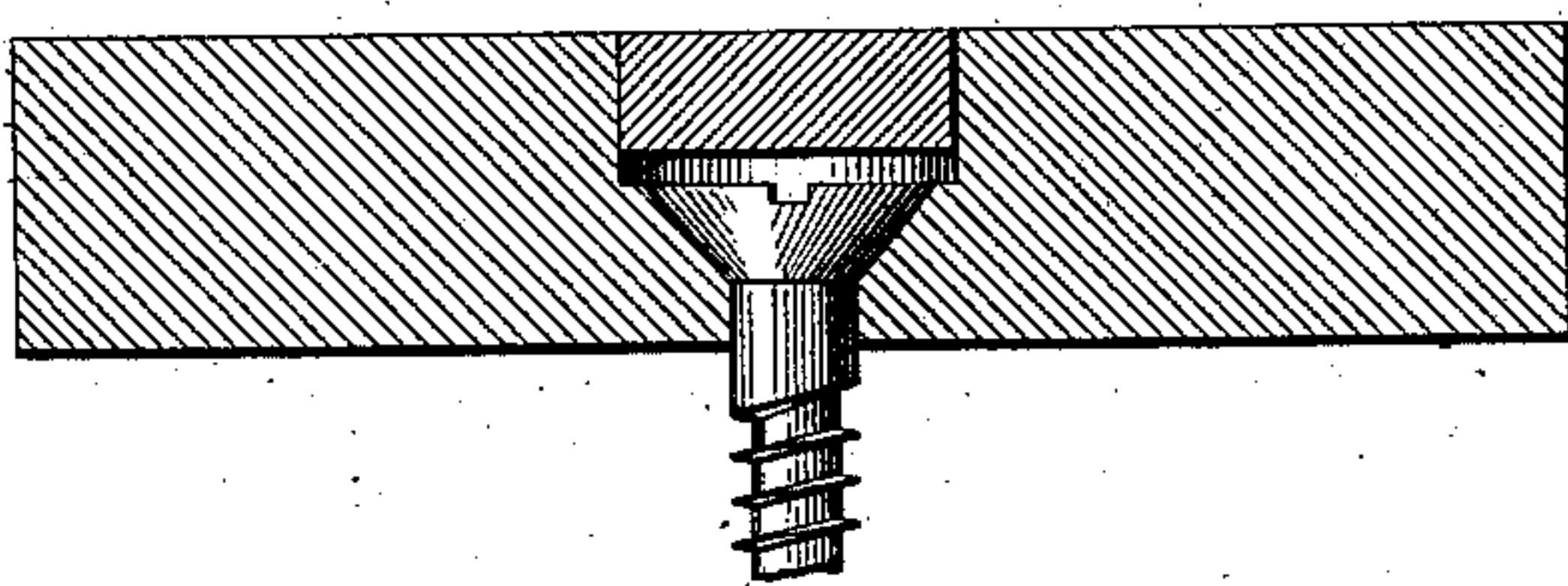
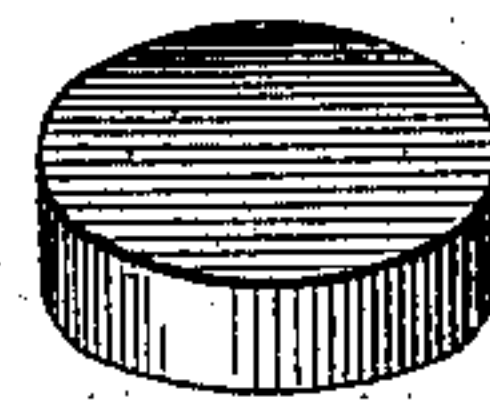


Fig. 4.



Witnesses:

Henry Baker
Wallace H. Stts

Inventor.

Reosman P. Fancher

UNITED STATES PATENT OFFICE.

ROSMAN I. FANCHER, OF BALDWINVILLE, NEW YORK.

WOODEN PLUG.

SPECIFICATION forming part of Letters Patent No. 293,726, dated February 19, 1884.

Application filed July 27, 1883. (No model.)

To all whom it may concern:

Be it known that I, ROSMAN I. FANCHER, a citizen of the United States, residing at Baldwinville, in the county of Onondaga and State of New York, have invented a new and useful Wooden Plug, of which the following is a specification.

My invention relates to an improvement in plugging holes in the panels of carriage-bodies, or the holes in any and all other wood-work where they are made for the purpose of inserting screws or for any other purpose, and require to be filled again with wood in such a manner as to present a solid and level surface; and the objects of my improvements are, first, to provide a perfect joint for gluing the plug into the hole; second, to make the joint at the surface of the wood in such a manner that it will not be broken or disturbed by the action of the atmosphere or moisture. I attain these objects by the mode illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of the improved plug as it is placed in the wood when finished; Fig. 2, the improved plug as it is made ready for use; Fig. 3, a vertical section of the old plug as it is placed in the wood when finished; Fig. 4, the old plug as it is made ready for use.

In Fig. 1, A represents a section of a panel; B, the plug; C, the overlapping rim or lip left on the plug after it is finished level with the surface of the panel. Regarding Fig. 2, as shown, the vertical side at the top is intended to show the plug as it is made when ready to use. After the plug is glued into the hole, the top is dressed down, so as to leave a knife-edge on the plug, as shown in Fig. 1.

By the old mode of using plugs, as shown in Fig. 3, it is impossible to glue them in such a manner as to keep the surface perfect after exposure to the action of the atmosphere or moisture. Especially is this the case in carriage-work, where the panels are finished with paint, the plugs always showing through the

paint in a short time after being finished. Now, by making the plug with an overlapping rim or lip, as shown at C, Fig. 1, and fitting it into the panel, which has a countersunk hole, as shown, I obtain a perfect glue joint between the rim or lip of the plug and the panel, and the rim of the plug, being finished to a sharp edge at the outside, leaves the body of wood at the edge so tight at the joint in the surface of the panel that it is not easily disturbed by the action of the atmosphere or moisture, being more firmly held by the glue than if the body of wood were heavy at this point.

A striking advantage in using the improved plug is in getting a joint for the glue nearly flatwise with the grain of the wood, in which position it is a well-known fact that glue will hold wood together stronger than when the joint is made so as to have the ends of the grain meet, as is the case in the joint formed by using the old plug, all plugs being cut so that the grain runs the same as in the panel. The lower part of the improved plug is fitted so as to drive tightly into the hole and draw the rim or lip of the plug down, so that the glue may set firmly.

I am aware that prior to my invention plugs have been used as shown in Fig. 3; but I am not aware that they have been made or used with an overlapping rim or lip as herein described and shown in Fig. 1.

What I claim, and desire to secure by Letters Patent of the United States, is—

A wooden plug having an overlapping beveled rim or lip, in combination with a countersunk hole cut into wood in such a manner as to receive the plug and make a perfect joint between the wood into which it is inserted and the rim or lip of the plug, for the objects and purposes herein set forth and described.

ROSMAN I. FANCHER.

Witnesses:

ASAHEL K. CLARK,
JAMES HOLIHAN.