

(No Model.)

W. PATTERSON.

HINGE.

No. 292,574.

Patented Jan. 29, 1884.

Fig: 1.

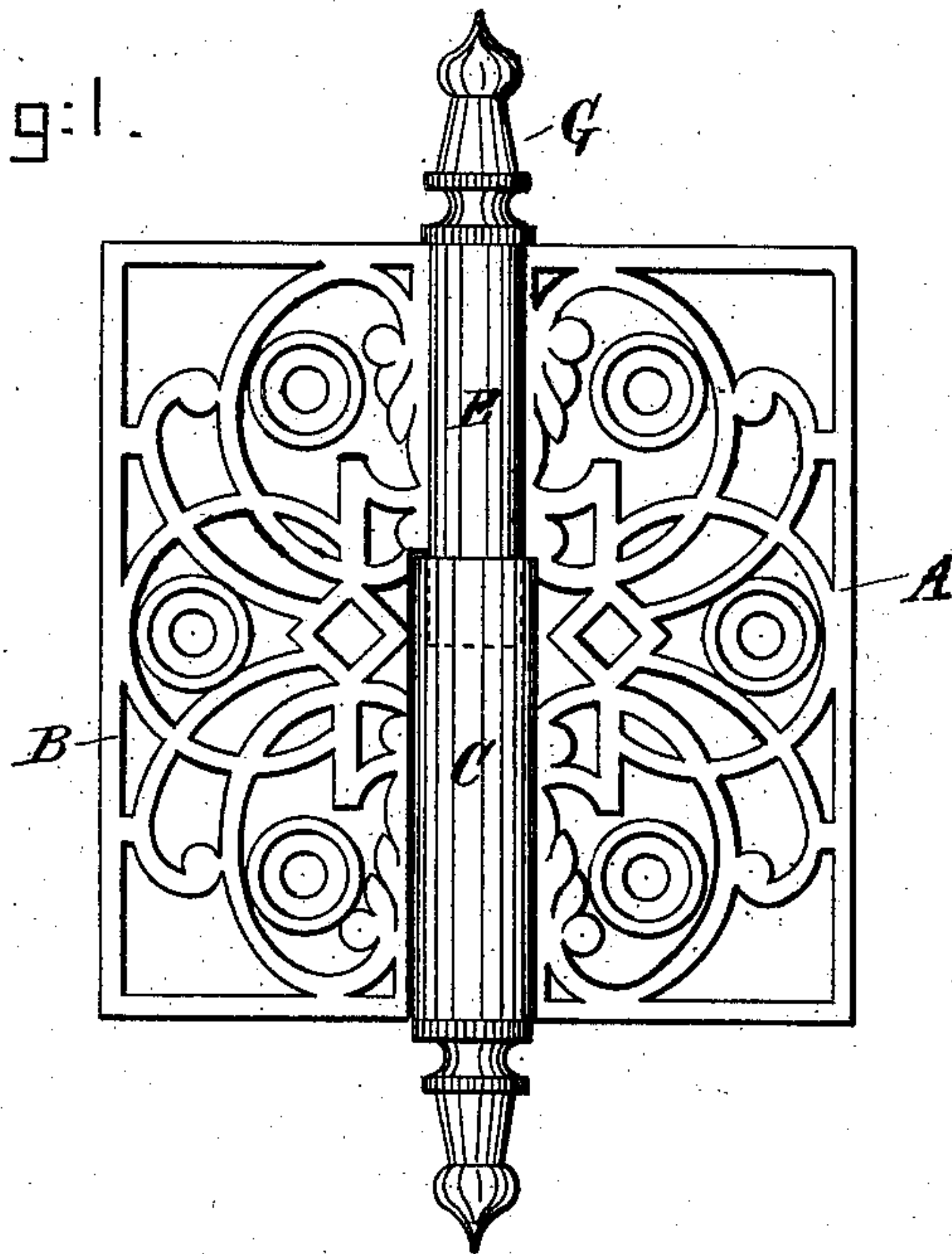


Fig: 3.

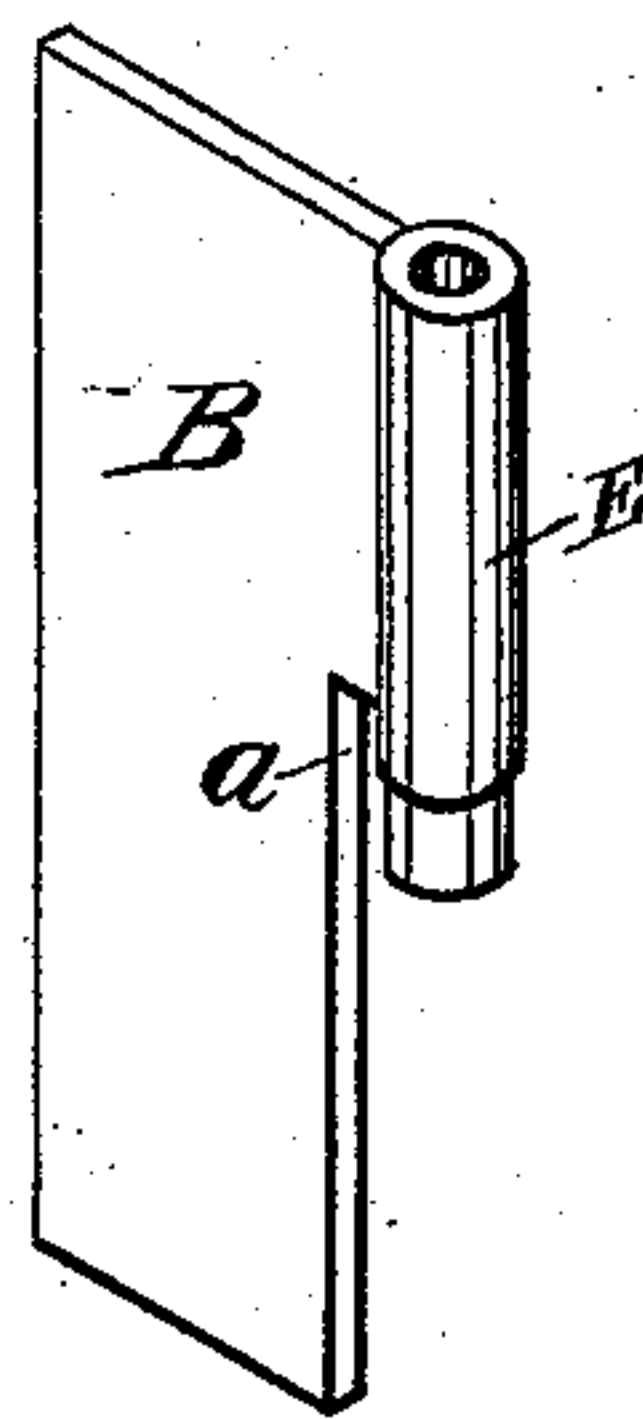
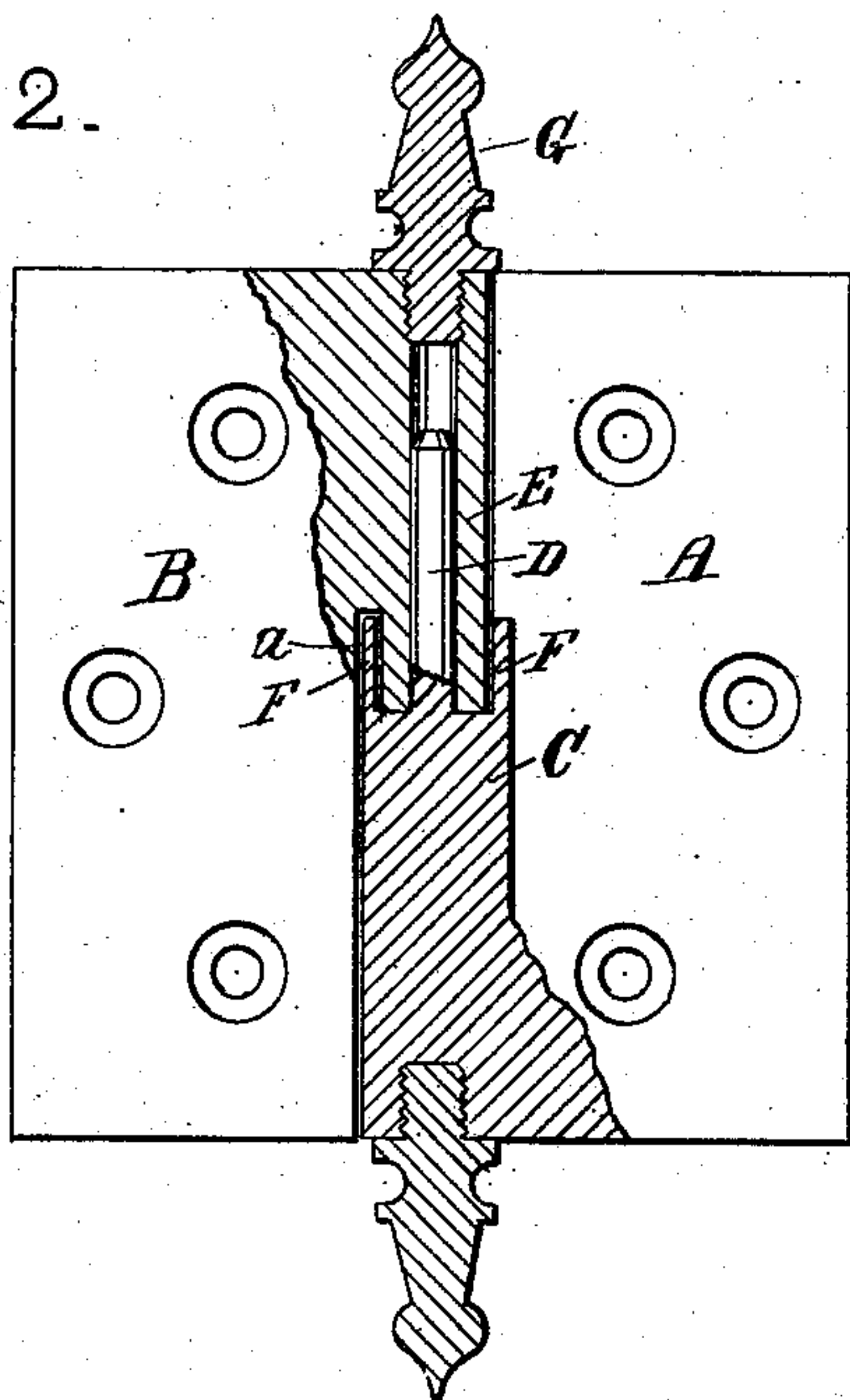


Fig: 2.



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UNITED STATES PATENT OFFICE.

WILLIAM PATTERSON, OF SAN FRANCISCO, CALIFORNIA.

HINGE.

SPECIFICATION forming part of Letters Patent No. 292,574, dated January 29, 1884.

Application filed October 25, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM PATTERSON, of the city and county of San Francisco, State of California, have invented an Improvement in Self-Lubricating Hinges; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to a device or means for lubricating hinges or butts of that class having two leaves, the pintle projecting upward from the lower part of one, while the socket is formed on the upper part of the opposite leaf, known as "loose half-butts."

It consists of a cup or sleeve surrounding the pintle and extending a short distance upward from the shoulder upon which the socket rests. The socket has its lower end formed with a channel or groove between itself and the plate or leaf, so that it can extend down into the cup, the edges of which thus extend up into the groove. The socket is open at the top to admit oil, and an ornamental screw-cap closes it.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a view of my hinge and oiling attachment. Fig. 2 is a vertical section, and Fig. 3 is a perspective view in a modified form.

A and B are two leaves of a hinge. The leaf A has a cylindrical projection, C, upon the lower half of one edge, and the pintle D extends upward from its center. The leaf B has a cylindrical projection, E, from the upper half of its corresponding edge, and this projection is perforated longitudinally to form a socket for the pintle D. The lower end of the socket E thus forms a shoulder, which is supported upon the part C in the manner usual to this class of hinges.

In my invention a sleeve, F, is formed with or fixed to the part C, projecting upward from the shoulder upon which the socket E rests, and it is made of a sufficient size to allow the socket to turn within it. In the present case the sleeve F is shown of larger diameter than the part E; but the sleeve will usually be made

of the same diameter, and the lower end of E will be turned down, so as to enter the sleeve and have a shoulder just at its top, as shown in Fig. 3, the two parts presenting an even continuous outline. In order to allow the socket to pass down into this sleeve or cup when placed upon the pintle, a groove, *a*, is formed between it and the leaf, of which it forms a part, this groove being as long as the depth of the cup. The socket for the pintle, instead of being made only of sufficient depth to just receive the pintle, is continued up to the top, thus forming an opening, through which oil may be introduced. An ornamental cap forms the finish for each end of the parts C and E, and the upper one, G, screws into the hole at the top, and thus forms a stopper for it.

I am aware that hinges have been made with a cup at the lower end of the pintle, to hold oil, and that in a hinge having two projections from one leaf, inclosing a central one from the other, the pin passing through to unite them has been channeled or grooved to allow oil to flow down into the cup. I do not, therefore, claim such a device.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a hinge composed of two leaves, one of which carries a single fixed pintle and the other a socket to fit over the said pintle, an extension or cup surrounding the pintle, in combination with the socket E, in which is fitted into the top a removable tip, G, said socket being provided with a slot, *a*, formed between its lower end and the leaf, whereby the socket is allowed to enter the cup and turn therein, substantially as herein described, and for the purpose set forth.

In witness whereof I have hereunto set my hand.

WILLIAM PATTERSON.

Witnesses:

S. H. NOURSE,
H. C. LEE.