

No. 619,113.

W. B. ARNOLD.
HINGE.

Patented Feb. 7, 1899.

(Application filed Aug. 9, 1898.)

(No Model.)

Fig. 1.

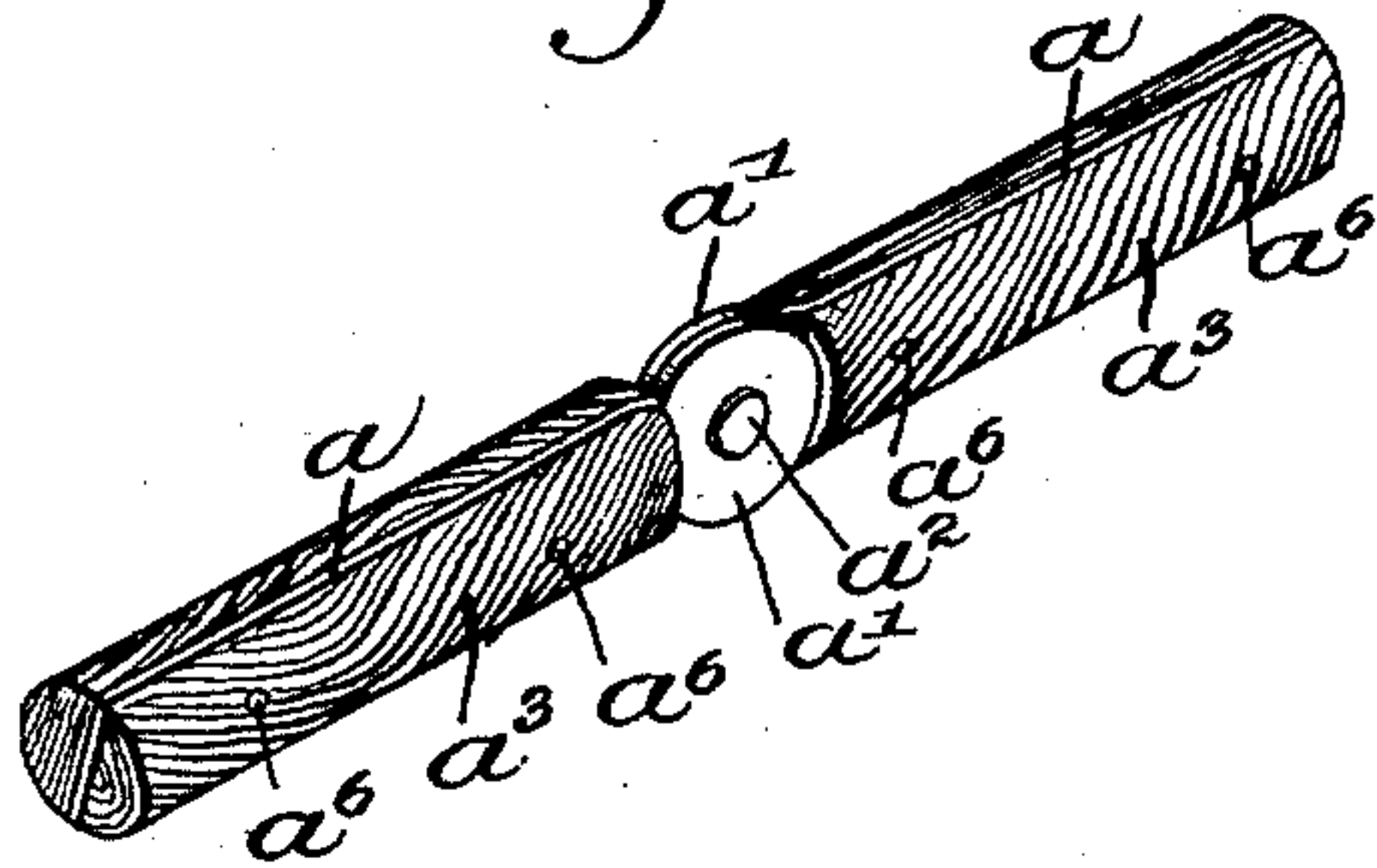


Fig. 2.

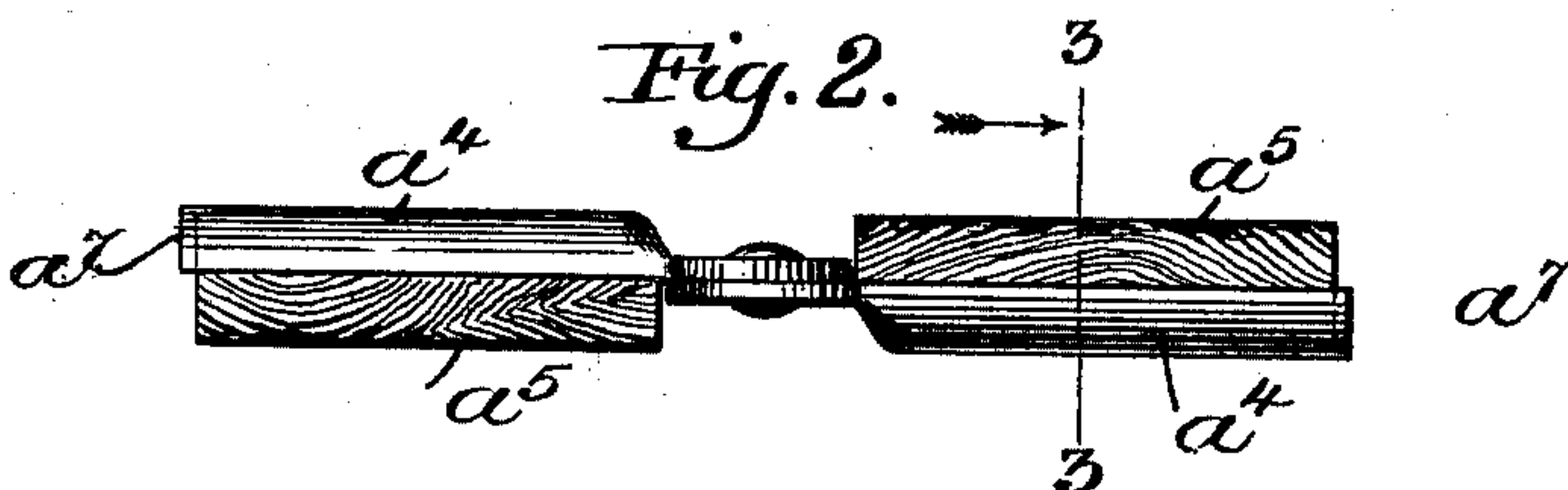
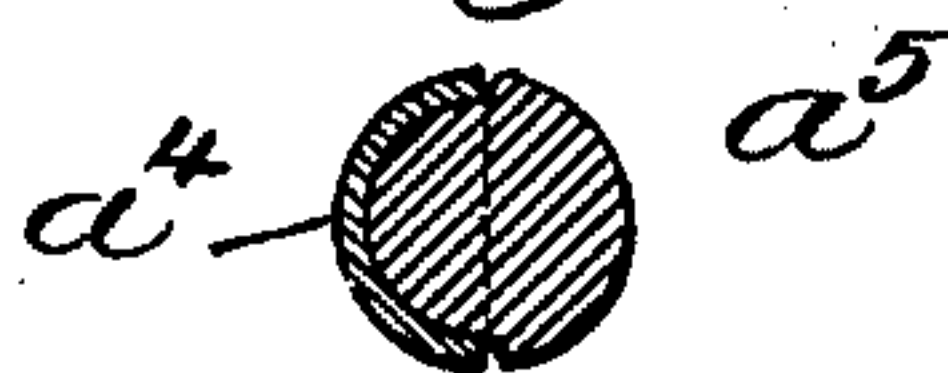


Fig. 3.



Witnesses
Louis N. Gowell.
Geo. H. Maxwell.

Inventor:
William B. Arnold.
by Leroy S. Brown, attys

UNITED STATES PATENT OFFICE.

WILLIAM B. ARNOLD, OF ABINGTON, MASSACHUSETTS.

HINGE.

SPECIFICATION forming part of Letters Patent No. 619,113, dated February 7, 1899.

Application filed August 9, 1898. Serial No. 688,175. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. ARNOLD, of North Abington, county of Plymouth, State of Massachusetts, have invented an Improvement in Hinges, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

My invention is an improved hinge particularly intended for use wherever a light strong hinge is required and which it is desired to secure in place by being glued to an adjacent part.

My invention is especially adapted for use in follower-lasts, although I have used it successfully in first lasts, and it is adapted for use in various other connections where a strong and inexpensive hinge is desired.

The details of construction of my invention and its manner of use will be more particularly set forth in the following description, reference being had to the accompanying drawings, and the invention will be more particularly defined in the appended claims, also forming a part of this specification.

In the drawings, in which I have shown preferred embodiments of my invention, Figure 1 is a perspective view of one form thereof. Fig. 2 is a top plan view of a modified form thereof. Fig. 3 is a vertical cross-section taken on the line 3 3, Fig. 2.

Referring to Fig. 1, it will be seen that the embodiment of my improved hinge therein shown comprises opposite webs or leaves a , which may be stamped out of sheet-steel or other metal or material, said leaves having at their meeting ends similar ears a' , centrally perforated to receive a pintle a^2 , joining the leaves together. The leaves a are shown in Fig. 1 as plane and have on their opposite sides semicylindrical filling-pieces a^3 of wood or other light inexpensive material adapted readily to receive glue or other adhesive substance.

The form of my invention shown in Figs. 2 and 3 is in general like that already described, excepting that the leaves a^4 instead of being plane are stamped into semicylindrical shape for the greater part of their length and an approximately cylindrical block or filling a^5 of wood or other filling ma-

terial, as stated above, is pressed into the concave side of the leaf a^4 .

In the form of my invention shown in Fig. 1 I have found it preferable to secure the pieces or fillings a^3 of wood by means of rivets a^6 ; but in the form shown in Figs. 2 and 3 it is ordinarily sufficient to secure the fillings a^3 to the leaves with glue.

It will be obvious that in use my hinge offers great economy not only in its slight cost itself, but in its facility of use, it being a simple matter to bore a hole for the dowel-like ends of the hinge and then secure the hinge simply by smearing the ends thereof with glue and forcing them into the holes made to receive them.

By having the ends of the leaves a^4 turned up or closed at their free ends, as indicated at a^7 , the fillings a^5 need not be secured to the leaves until needed in use, when the entire filling is smeared with glue, (any adhesive matter,) and upon being put into the cavity of the hinge-leaf and forced into the socket or recess prepared for it the filling is thereby simultaneously secured in the hole and to the leaf of the hinge.

While the form of hinge shown in Figs. 2 and 3 is somewhat cheaper than the form shown in Fig. 1, the latter is advantageous where it is required to endure considerable strains, for the reason that a greater superficial area of wood is offered to the retaining-glue than in the other form of the hinge.

While I have herein shown preferred embodiments of my invention, I wish it understood that I am not limited thereto, but many changes in details may be resorted to within the spirit and scope of my invention.

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

1. As an article of manufacture, the herein-described hinge comprising oppositely-extending webs or leaves joined by a pintle, each of said webs or leaves having a filling of wood or equivalent material extending longitudinally thereof, substantially as described.

2. As an article of manufacture the herein-described hinge comprising oppositely-extending webs or leaves joined by a pintle, each of said webs or leaves being bent into

approximately semicylindrical form, and a cylindrical filling of wood or described equivalent secured therein on the concave side thereof, substantially as described.

5 3. In a hinge, a metal web or leaf, combined with a wooden filling, or surface adapted to receive glue for securing the hinge in a recess made to receive it, substantially as described.

10 4. In a hinge, a metal web or leaf, bent into approximately semicylindrical form, and

turned up or closed at its free end, combined with a wooden filling, or surface adapted to receive glue, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of 15 two subscribing witnesses.

WILLIAM B. ARNOLD.

Witnesses:

GEO. H. MAXWELL,

GEO. W. GREGORY.