

A. J. D. HEINS.

HINGE.

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923,518.

Patented June 1, 1909.

Fig. 2.

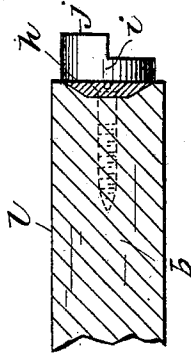


Fig. 3.

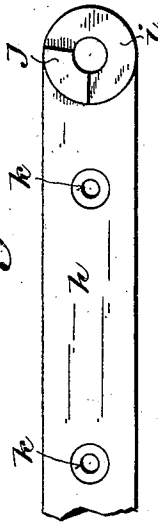
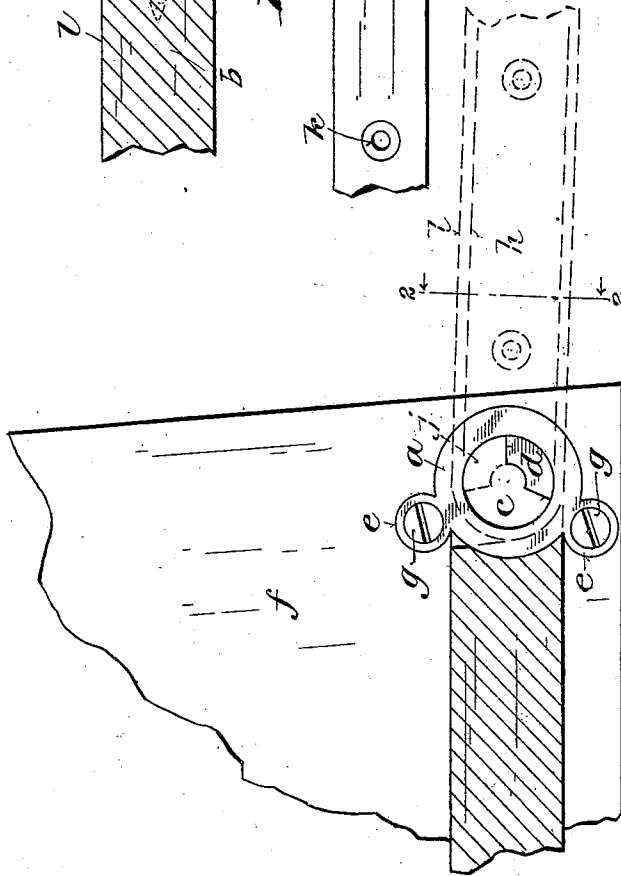


Fig. 1.



Witnesses:

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HINGE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ARNOLD J. D. HEINS, a citizen of the United States, residing at Beaver Dam, in the county of Dodge and State of Wisconsin, have invented certain new and useful Improvements in Hinges, of which the following is a specification, reference being had to the accompanying drawing, forming a part thereof.

This invention relates more particularly to stop hinges for use in connection with drop-leaf writing desks and the like. Its main objects are to firmly support a drop desk-leaf or the like in a horizontal or inclined position for writing or other use; to facilitate the application of the hinge to a desk or other article; to reinforce and strengthen the desk-leaf or other part to which one member of the hinge is secured; and generally to simplify and improve the construction and operation of hinges of this class.

It consists in certain novel features of construction and in the peculiar arrangement and combinations of parts as hereinafter particularly described and pointed out in the claims.

For the purpose of illustration the hinge constituting the present invention is shown as designed for and applied to a drop-leaf desk or cabinet, but with little or no change in its construction it may be applied to other articles.

In the accompanying drawing like letters designate the same parts in the several figures.

Figure 1 is a side elevation of the socket member of the hinge together with a part of one of the side pieces of a desk or cabinet, the other member of the hinge together with a part of the leaf or cover to which it is attached being indicated by dotted lines in an open position and a portion of the bottom of the desk or cabinet being shown in section; Fig. 2 is a cross section of the leaf or pintle member of the hinge and of a part of the leaf or cover to which it is attached, on the line 2 2, Fig. 1; and Fig. 3 is a side elevation of the leaf or pintle member of the hinge as viewed from the right with reference to Fig. 2.

The hinge is composed of two parts or members *a* and *b*. The socket member *a* is made of annular or circular shape and formed with a cylindrical socket *c* terminating in a sectorial stop *d* which projects into it for a part of its length at the end farthest from the

other member of the hinge. On the outside it is formed with semi-circular perforated ears *e*, the holes in these ears being generally countersunk to receive the heads of ordinary wood screws flush with the exposed faces of the ears. This member is sunk into the side piece *f* of the desk flush with its inner face and is secured in place therein by screws *g*, the mortise therefor being easily and quickly bored with bits corresponding in diameter with the body of the member and with the ears *e*. The other member *b* consists of a strap *h* formed on one side and at one end with a laterally projecting cylindrical pintle *i*, which is fitted in the socket *c* and terminates in a sectorial stop *j* opposing the stop *d* when the parts of the hinge are assembled. The strap *h*, which may be beveled on the back and is formed with countersunk screw holes *k*, is sunk or mortised into the edge of the leaf or cover *l*, as shown in Fig. 2, and is secured thereto by wood screws, as indicated by dotted lines.

It is to be understood of course that the desk is to be provided with two of these hinges, one on each side of the leaf, and that the members of each hinge are to be assembled before the leaf is inserted in place or before both sides *f* of the desk are secured in place.

When the members of the hinge are applied to the parts of a desk and assembled as indicated in Fig. 1, and the leaf or cover is turned down into an approximately horizontal position, the stop *j* on the pintle, by engagement with the stop *d* in the socket member, will firmly support the leaf or cover in that position.

The strap *h* may be extended the entire length of the leaf or cover and thus made to reinforce and strengthen the same.

A hinge constructed as herein shown and described is not only easily assembled and applied to a desk or other similar article of furniture, but is also simple, convenient, strong and durable.

I claim:

1. A hinge consisting of a member having a cylindrical socket and a stop projecting into the socket on one side thereof for a part of its length, and a member having a cylindrical pintle fitting said socket and terminating within the circumference of the pintle in a stop adapted to cooperate with the stop in the other member, substantially as described.

2. A hinge composed of a circular socket

member having a semi-circular perforated ear for securing it in place and a cylindrical socket with a stop projecting into one end of the socket, and a member having on one
5 side a cylindrical pintle fitting in the socket member and terminating within the circumference of the pintle in a stop adapted to cooperate with the other stop, substantially as described.

10 3. A hinge composed of a circular socket member having a cylindrical socket, a sectorial stop projecting into said socket on one side thereof for a part of its length and per-

forated semi-circular ears on its periphery, and a strap member having a cylindrical
15 pintle on one side fitting said socket and terminating within the circumference of the pintle in a sectorial stop opposed to the other stop, substantially as described.

In witness whereof I hereto affix my signature in presence of two witnesses.

ARNOLD J. D. HEINS.

Witnesses:

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