June 14, 1927. 1,632,415

S. W. PARSONS

OLIVE KNUCKLE HINGE

Filed Sept. 8, 1926

Fig. 1.

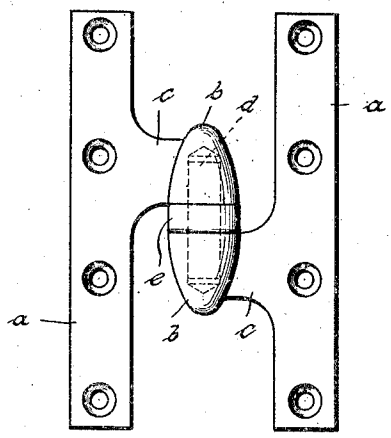


Fig. 3.

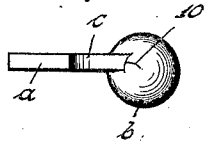


Fig. 2.

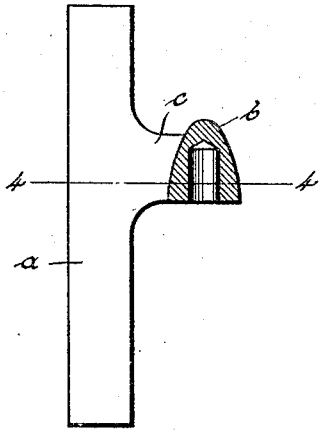
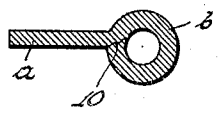


Fig. 4.



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UNITED STATES PATENT OFFICE.

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OLIVE-KNUCKLE HINGE.

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This invention relates to hinges, and has particular reference to a hinge of the so-called olive knuckle type having two leaves each with a single knuckle of generally dome or semi-olive shape and a pintle, the opposite ends of which are received in said knuckles.

The object of the invention is to provide a hinge of this sort of sheet metal and which hinge may be economically manufactured and is an article of high quality in that it has great strength and durability.

In the accompanying drawings:

Fig. 1 is a view of a complete hinge, and shows one embodiment which the present invention may take;

Fig. 2 is an elevational view of the completed leaf with the knuckle forming portion thereof shown in section;

Fig. 3 is a top plan view of the leaf, the line of juncture in the knuckle being more pronouncedly shown than actually appears in the article as manufactured so as to illustrate the structure more completely; and

Fig. 4 is a sectional view taken through the completed leaf on substantially line 4—4 of Fig. 2.

Referring to the drawings in detail, and particularly to Fig. 1, each of the leaves is illustrated as having an attaching portion *a*, a generally dome or semi-olive shaped knuckle *b*, and a flat shank portion *c* between the attaching portion and the knuckle. *d* designates the pintle, the opposite ends of which are received by the knuckles on the respective leaves, and *e* designates a ball bearing unit about the pintle and between the knuckles. This ball bearing unit may or may not be used, as desired, and the specific construction of it is not shown as it forms no part of the present invention.

In accordance with the present invention, each of the leaves is formed of sheet metal. My improved hinge leaf has a knuckle of semi-olive shape, and the upper end of this knuckle is completely closed and preferably extends above the shank portion *c*. The axis of the knuckle is substantially in parallelism with the plane of the attaching portion and the shank portion. The knuckle has a smooth unbroken surface which is entirely devoid of cracks or crevices. The knuckle has a single line of juncture 10 extending down from a point adjacent the apex of the knuckle to and along the end of the shank *c*. The metal along this line is not joined or united, but it is pressed so closely together that this line of juncture cannot be perceived except upon a close examination.

My improved hinge may be very economically manufactured and, since the leaves are formed of sheet metal, they are extremely strong and, therefore, well able to withstand heavy duty. The knuckles have a smooth, unbroken exterior surface, the line of juncture in the knuckle, as previously stated, being practically invisible.

I claim as my invention:

1. A hinge formed of sheet metal having an attaching portion, a shank portion extending therefrom, and a dome shaped knuckle integrally connected with the outer end of said shank portion, said knuckle having a single and practically invisible line of juncture in its wall extending from a point adjacent the apex of the knuckle down to and along the shank portion.

2. A hinge formed of sheet metal and comprising an attaching portion, an integral flat shank portion extending from one of the side edges of said attaching portion, and a dome-shaped knuckle on the outer end of said shank portion, said knuckle being curved throughout its height and being closed and rounded at one end, the axis of said knuckle being parallel to the plane of the attaching portion and said knuckle having a single line of juncture extending from a point adjacent the apex of the knuckle down to and along the outer end of said shank portion.

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