S. W. PARSONS AND P. F. KING.

BUTT.

APPLICATION FILED APR. 13, 1917.

1,311,243. Patented July 29, 1919.

Fig. 1.

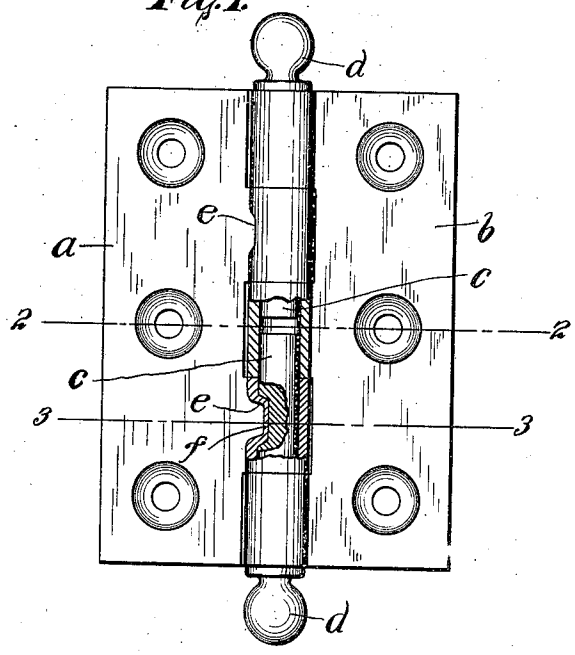


Fig. 2.

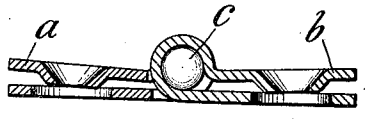
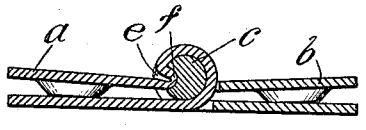


Fig. 3.



WITNESS:

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UNITED STATES PATENT OFFICE.

STUART W. PARSONS AND PATRICK F. KING, OF NEW BRITAIN, CONNECTICUT, ASSIGNORS TO THE STANLEY WORKS, OF NEW BRITAIN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

BUTT.

1,311,243. Specification of Letters Patent. Patented July 29, 1919.

Application filed April 13, 1917. Serial No. 161,880.

To all whom it may concern:

Be it known that we, STUART W. PARSONS and PATRICK F. KING, citizens of the United States, and residents of New Britain, county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Butts, of which the following is a specification.

The invention herein illustrated and described finds a peculiar utility in connection with the manufacture of small butts of the friction type and made out of thin gage metal, although some of the features of the invention are adapted for use generally in butt construction. One object of the invention is to provide a novel form of pin for connecting the two leaves; and another object of the invention is to provide a means for securing the pin in place.

Referring to the drawings—

Figure 1 is a face view of a butt embodying our invention, with parts broken away to show construction.

Fig. 2 is a sectional view on the line 2—2 of Fig. 1.

Fig. 3 is a sectional view on the line 3—3 of Fig. 1.

The invention as shown is embodied in a friction butt or hinge, an article well known in the art, each leaf being formed of a piece of sheet metal bent back upon itself and having its central portion rolled to form the knuckles. The knuckle is rolled to rather closely fit the pin, and the two parts of the leaf portion are left slightly separated, as clearly seen in Figs. 2 and 3. When the butt is installed, the fastening screw draws the two parts of the leaf tight down together, and thus provides a frictional grip for the knuckles on the pin.

Heretofore it has been customary to use a single pin extending through all of the knuckles and connecting the two leaves together. For appearance and for security the pin is usually headed, and naturally one of the heads must be separate from the pin, and in the smaller butts made out of light gage metal it has been very difficult to fasten this separate head securely.

In order to obviate this difficulty a two-part pin, indicated at *c*, *c*, has been provided, each member of which has formed integrally with it a head *d*. These pins are put in from each end of the butt, as clearly seen in Fig. 1, and come just short of butting in the middle knuckle. In order to hold these pins in position and insure that they will turn with one leaf and so produce a frictional action on the knuckles of the other leaf, the pins are recessed as at *e*, and the metal of the knuckles of one leaf, preferably that leaf having the fewest number of knuckles, as *a*, is bent or depressed inwardly to form a fold or rib like projection which sets into this recess, as indicated at *f*. This prevents any relative motion between the pins and the leaf *a* and insures the frictional action between the pins and the knuckles of the other leaf *b*. It will be seen that when it is desired to withdraw the pintles from the knuckles the screws which pass through the openings in the overlapping parts of the leaves are withdrawn and the upper part of the leaf having the bent in folds or projections is sprung away from the lower part of that leaf so as to withdraw the projections from the recesses in the pintles.

The herein-described construction makes for security in assembly, provides a finished appearance for the butt, and insures a maximum of frictional action. As has been said, the invention is peculiarly adapted to the small butts of the friction type made from light gage metal but in certain features is adapted to other types of butts.

In accordance with the provisions of the patent statutes, we have described the principle of operation of our invention, together with the apparatus which we now consider to represent the best embodiment thereof; but we desire to have it understood that the apparatus shown is only illustrative, and that the invention can be carried out by other means.

We claim as our invention:—

1. A butt having a leaf formed of sheet-metal folded back upon itself to form two over-lying slightly separated parts and a knuckle between said parts, said knuckle having an integral projection, a pintle passing through said knuckle and having a recess receiving said projection, said overlying parts having openings for receiving the means for securing the butt in place, and said projection being withdrawn from said recess when said overlying parts are moved apart.

2. A butt comprising a pair of leaves each

formed of sheet-metal folded back upon itself to form two over-lying parts with the folds shaped to form inter-fitting alined knuckles, a plurality of headed pintles introducible into said knuckles at opposite ends thereof and each pintle having a recess, projections on the knuckles of one of said leaves engaging in said recesses of the pintles, the over-lying parts of each of said leaves normally standing apart and being adapted to be drawn together by the means which secures the butt in place.

3. A butt comprising a pair of leaves with interfitting alined knuckles which are apertured to receive means for connecting the leaves together, and a plurality of headed pins, one of which is introducible into said knuckles at one end, and the other at the other end of said butt, both of said pins entering a knuckle of both leaves, and means on one leaf engaging both of said pins to prevent relative rotary movement therebetween, the knuckle of said other leaf being in frictional engagement with said pintle.

STUART W. PARSONS.
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."