July 26, 1927. 1,636,971

H. TUECKMANTEL

BAG FRAME HINGE

Filed Oct. 12, 1926

Fig. 1

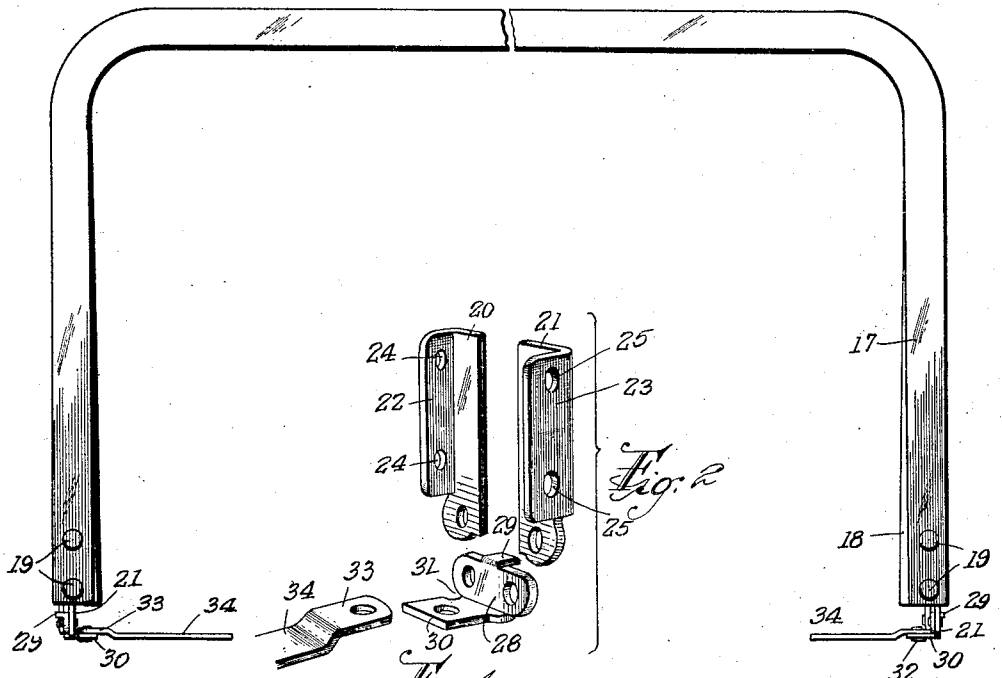



Fig. 2

Fig. 3

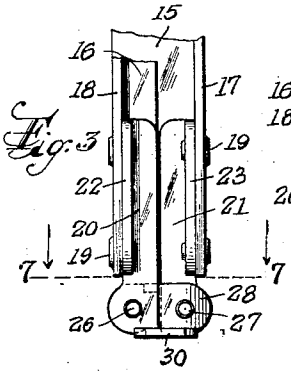



Fig. 4

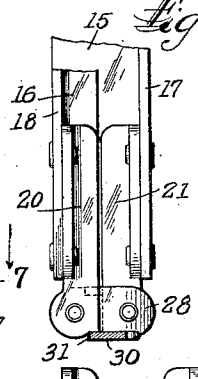



Fig. 5

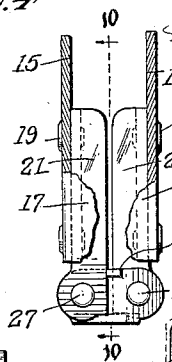



Fig. 6

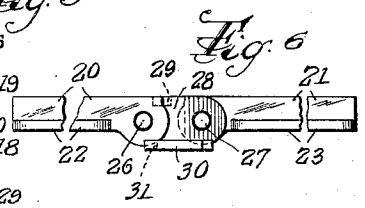



Fig. 7

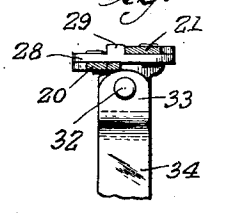



Fig. 8

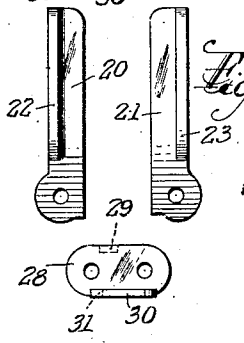



Fig. 9

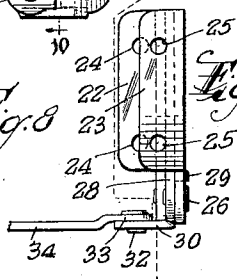
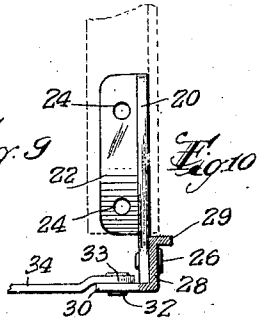



Fig. 10




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# UNITED STATES PATENT OFFICE.

HUGO TUECKMANTEL, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE T. & L. CO., INC., OF NEWARK, NEW JERSEY, A CORPORATION OF NEW JERSEY.

## BAG-FRAME HINGE.

Application filed October 12, 1926. Serial No. 141,044.

This invention relates to bag frame hinge connections and has particular reference to hand carried travelling bags of a long narrow type capable of opening widely, known generally as Gladstone bags.

The frames used in the construction of such bags consist of metal strips bent lengthwise to produce right angled members which are further bent transversely to form inverted U shaped elements composed of a top and right angled sides, the extremities of the side elements being hingedly connected in order to open and close the bag, the hinge members being coupled by a bar extending along the bottom lengthwise of the bag.

It is with hinges that the present invention is concerned and the purpose is to provide a novel form of bag frame hinge possessing several important advantages, such as exceptional strength for the weight of material employed, economy of construction due to practical design, the provision of stops effectively limiting the closing of the bag, and in sundry other features which will become apparent as the description progresses.

These objects are accomplished by the improved design, construction and arrangement of parts hereinafter described and illustrated in the accompanying drawing, constituting an important portion of this disclosure, and in which:—

Figure 1 is a side elevational type of Gladstone bag frame in which is incorporated embodiments of the invention.

Figure 2 is a group of the hinge elements in perspective.

Figure 3 is an inside elevational view of the hinge members as assembled with a pair of frame elements.

Figure 4 is a similar view of the same but showing a part in section. the view being taken on line 4—4 of Figure 9.

Figure 5 is an outer side elevational view of the same, parts of the frame members being broken away.

Figure 6 is an inner side view of the hinge with its members fully extended.

Figure 7 is a transverse sectional view taken on line 7—7 of Figure 3 showing the reach bar as connected.

Figure 8 is a group of the hinge elements in detail shown in plan view.

Figure 9 is a side view of the hinge as assembled.

Figure 10 is a sectional view looking on line 10—10 of Figure 5.

The bag frame is composed of two main members, 15 and 16, respectively wide and narrow, the wider being the outermost and slightly larger.

Each has right angled elements 17 and 18, offset inwardly and provided with openings to receive rivets 19 by which they are secured to the corresponding members of the hinges.

Each hinge consists of two like members 20 and 21 made respectively rights and lefts having right angled elements 22 and 23 on their outer edges, these angle elements having pairs of openings 24 and 25 conforming to the openings in the frames to receive the rivets 19.

The lower ends of the members 20 and 21 are flat and rounded on their outer surfaces, and contain openings to receive rivets 26 and 27 by which they are pivotally connected to a joint plate 28, curved at its ends in conformity with the shape of the end elements of the members 20 and 21.

It is to be noted that the joint plate 28 is disposed intermediate the members 20 and 21 whereby they are held in offset relation as best seen in Figure 9.

An integral lug 29 extends outwardly from the upper edge of the joint plate 28 and is so located as to form a positive stop against which the inner edge of the element 21 makes contact when the frame members are closed together, the opposite element 20 being stopped due to contact by its lower end with the edge of a right angled extension 30 reaching inwardly from the plate 28, the extension being recessed, as at 31, to permit the curved end of the plate 28 to rotate on its pivot when opening.

The extension 30 is provided with an opening to receive a rivet 32 by which is pivotally connected one of the offset ends 33 of a flat bar 34 reaching the entire length of the bag at its bottom and connected in a similar manner to the opposite hinge.

From the foregoing it will be seen that the frame members may be closed in parallel so that the edge of the element 15 will register with the exterior of the element 18 but

no further, thus providing a neat appearing joint.

It will also be clear that as each of the members of the hinge connecting the frame sides have independent pivots, the action of opening and closing is unusually easy and, due to the reenforcement afforded by the long hinge elements, a particularly strong hinge joint is attained.

All parts being subject to power press operations in their fabrication, uniformity and cheapness of production is assured, while assemblage is accomplished with facility.

As changes of construction could be made within the scope of the invention, it is intended that all matter contained in the foregoing description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

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

1. Bag frame hinges comprising two plates having right angled extensions on portions of their outer edges, a joint plate pivotally engaging said plates intermediately, and stops on said joint plate limiting the movement of the plates to a parallel position.

2. Bag frame hinges comprising pairs of plate members, joint plates intermediate said plate members and pivoted to each independently, means on said joint plates to limit the closing movement of said members, a reach bar connecting the joint plates, and means on said members whereby to secure a bag frame thereto.

3. A bag frame hinge comprising two pairs of like plate members, each pair having right angled leaves on one edge to be secured on the opposed elements of the bag frame, a joint plate to which said members are independently pivoted in spaced relation, a stop on said joint plate limiting the movement of one of the hinge members, an inreaching right angle extension on said joint plate serving as a stop for the other plate member, and a reach bar attached to said extension to extend to the hinge element at the opposite end of the bag frame.

4. Bag frame hinges comprising two plates having right angled extensions on their outer edges, said extensions being provided with means to engage the bag frame sides, said plates having openings beyond the extensions at one end, a joint plate carrying spaced pivots engaging in the openings, said joint plate being disposed between the plates whereby they are held in offset relation, stops on said joint plate limiting the turning movement of said plates and a connection from one joint plate to another joint plate at the opposite end of the bag frame.

This specification signed this 8th day of October, 1926.

HUGO TUECKMANTEL.