Dec. 11, 1923. 1,477,233

E. ALEXANDER

COLLAPSIBLE STOOL

Filed Nov. 14, 1922

Fig-1

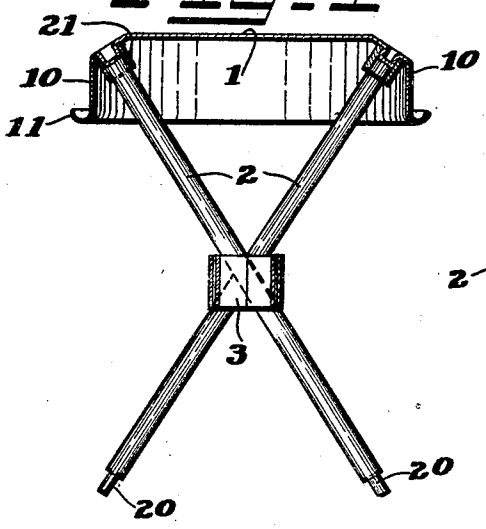


Fig-3

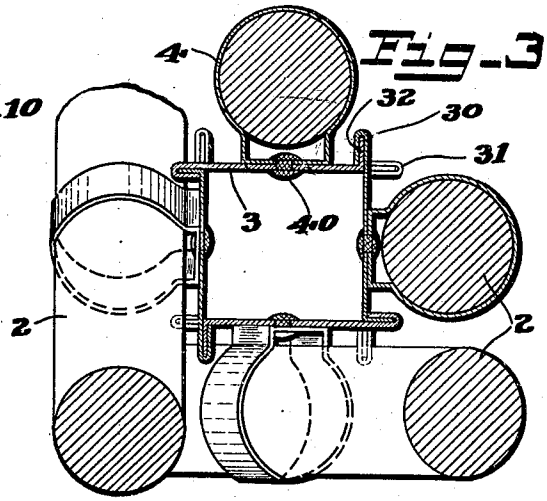
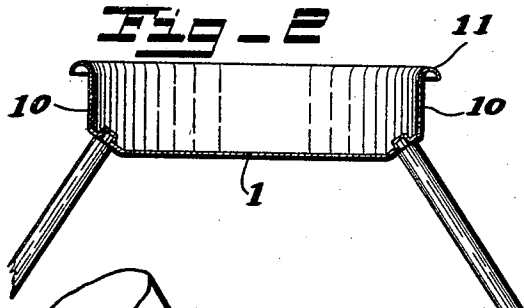


Fig-2



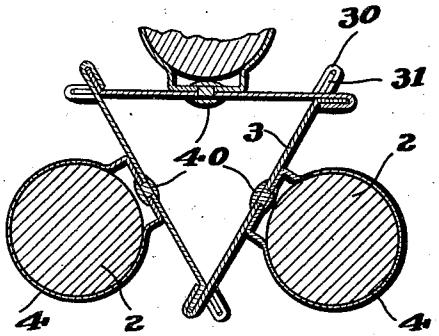


Fig-4

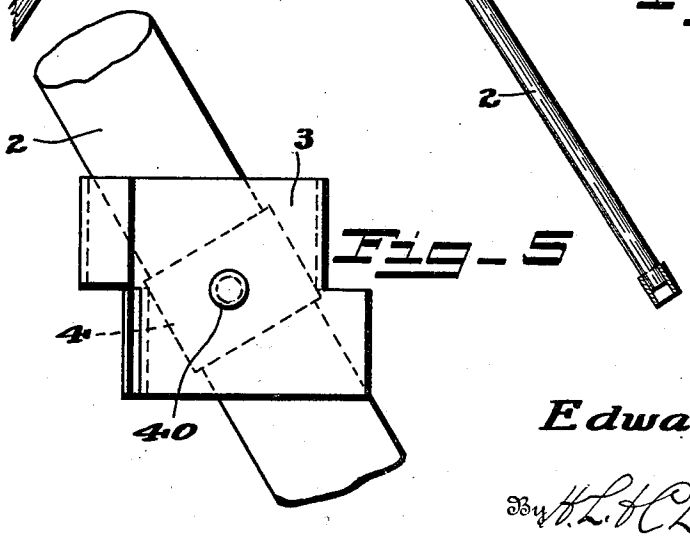


Fig-5

Inventor

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UNITED STATES PATENT OFFICE.

EDWARD ALEXANDER, OF SEATTLE, WASHINGTON.

COLLAPSIBLE STOOL.

Application filed November 14, 1922. Serial No. 600,959.

To all whom it may concern:

Be it known that I, EDWARD ALEXANDER, a citizen of the United States of America, and resident of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Collapsible Stools, of which the following is a specification.

My invention relates to a knock-down seat or stool which is designed particularly for advantageous use by campers, automobilists, and others who may desire a stool which can be easily collapsed into small space for transportation.

The object of my invention is to provide a device which while it may be conveniently used as a stool and collapsed or knocked down for convenient transportation, may also be used for other purposes than as a seat, as, for instance, as a bowl or basin for holding liquids, washing and the like.

The features of my invention which I believe to be new may be determined by an inspection of the specification and the claims terminating the same.

The accompanying drawings show a practical embodiment of my invention.

Figure 1 is a sectional elevation through the device in use as a stool, in its set up position.

Figure 2 is a similar view of the device when set up for use as a bowl or basin.

Figure 3 is a transverse section taken mainly through the means employed for binding the legs together.

Figure 4 is a similar view where a modified construction is employed, which uses only three legs instead of four.

Figure 5 is a side view of one of the leg-holding members which engage the center portion of the legs.

The seat member of the stool which forms the subject of this invention is designed to be made of metal or of such other material as at times is substituted for metal in analogous shapes, and is in the form of a dish or bowl. The natural shape for this would be of circular outline. The bottom portion 1 may be made flat or dished as desired. In the device as shown in the drawings this is shown as being flat. The flanges 10 I prefer to make of rather material extent so that the seat member may be used as a substantial dish or container for any liquid or other article. This flange is also preferably provided with a rolled edge as 11, this giving it finish and additional strength.

This seat member is provided with means for attaching thereto the legs by which it is supported. In Figures 2 and 3 it is contemplated that these legs will be four in number, while Figure 4 contemplates the use of three legs. Distributed about the outer edge of the bottom section are leg-engaging means consisting of hollow thimbles which are pressed from the material of which the bottom is formed so that at one side thereof they are in the form of projecting lugs of circular outline, while on the other side they form sockets.

The legs 2 I prefer to make of cylindrical section. At one end they are provided with a tip 20 of reduced diameter, this being adapted to enter the socket which in the embodiment of the device illustrated is at the outer side of the bottom member. The other end of the legs are each provided with a sleeve 21 of such size as to slip over the projecting portion of the thimble, as is shown in Figure 1. These leg-holding thimbles are placed at an angle such that in the one case the legs will cross as shown in Figure 1, and in the other case will occupy a diverging position as shown in Figure 2. The engaging portions of the legs and of the top may, when desired, be threaded for positive engagement.

The device by which the legs are engaged at or about the center of their length to hold them together is illustrated in Figures 3 and 4, one being adapted for holding four legs and the other three. Each of these devices is alike in its principles of construction. They each employ a set of plates, as 3, these being four in number where four legs are employed, and three in number where three legs are employed. Along the edges of these plates 3 are provided engaging flanges so that they may be held together. These flanges project in opposite directions as between the upper and the lower halves of the plates. One of these, as 32, if a flange which projects at right angles from the plane of the plate. The other has a flange which is folded back upon itself parallel with the body of the plates and separated therefrom enough to accommodate the flang 32 between it and the body of the plate, thus forming a U-shaped socket 30. The U-shaped socket is formed on one end

half of the plate and the right-angled flange upon the other. Two or more of the plates 3 may thus be engaged by sliding movement so as to engage these parts with each other and bind them all securely together.

Secured to each one of the plates 3 is a thimble or ring member 4 which is adapted to receive and hold the legs. These are held in place by a rivet as 40, which will permit swinging of the leg so that the legs may all be swung into position parallel with each other, if this be desired. It is not intended that the rings 4 should fit tightly enough about the legs to permit turning of the legs, if they are to be secured to the seat member by screwing thereon as previously mentioned.

The projection of the locking flanges by which the plates 3 are held together is such that they will act as stops to prevent swinging of the legs 2 through too great an angle.

With the device assembled as shown in Figure 1 a substantial seat is formed. The seat member 1 may be used alone as a basin or holder for any material desired. This may be done without using the legs. At the same time, the legs may be inserted therein after the manner shown in Figure 2 so as to support this basin raised above the ground. When so employed it forms a convenient wash basin. The same basin may also be used for cooking, if desired.

It is my intention to make the seats or bowls with their side flanges 10 sloping or tapering enough so that two or more may be nested for packing if desired.

What I claim as my invention is:

1. A knock-down seat comprising a basin-like seat member having leg-securing means distributed about the outer edge of its bottom and consisting of hollow thimbles integral with the body of the basin and legs at one end adapted to enter the thimble and at its other end to fit over the thimble.

2. A knock-down seat comprising a seat member provided with means for engaging supporting legs therewith, four legs adapted to engage the seat while maintaining a crossed position, and a leg confining member comprising a central body composed of a set of plates having sliding interlocking engagement with each other and means for pivotally securing a leg to each of said plates.

Signed at Seattle, King County, Washington, this 8th day of November, 1922.

EDWARD ALEXANDER.