Jan. 12, 1965 L. Y. CARD 3,165,358

INFANT-HOLDING ATTACHMENT FOR SEATS

Filed Oct. 19, 1962

Fig 1

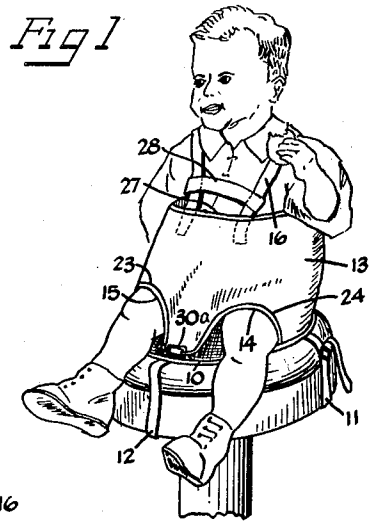


Fig 2

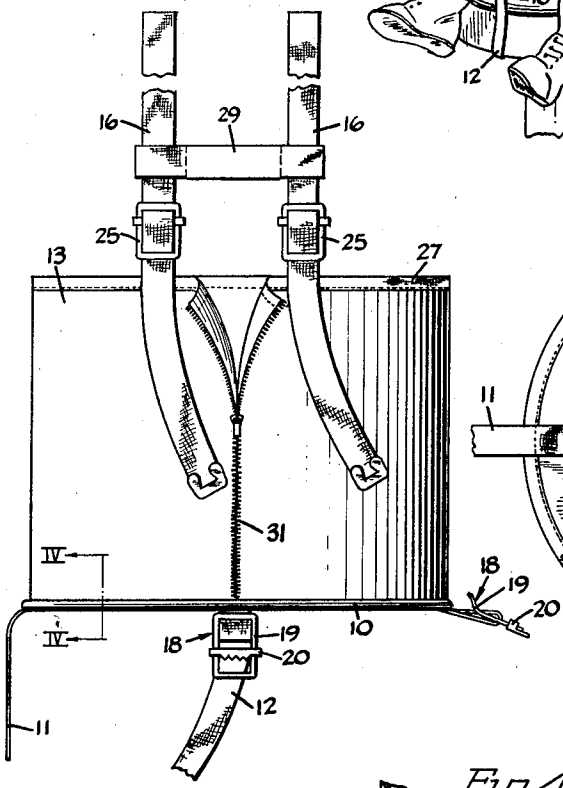


Fig 3

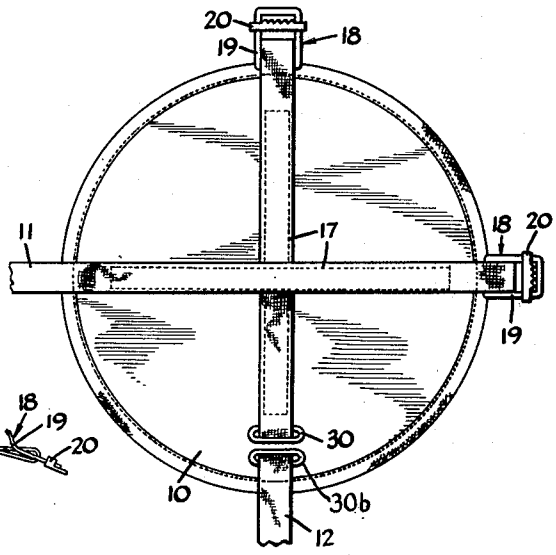
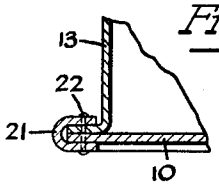


Fig 4



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INFANT-HOLDING ATTACHMENT FOR SEATS

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This invention relates to an infant-holding attachment and more particularly to one for ready attachment to the seat of a stool or the like and which holds an infant safely and securely to the seat.

An object of this invention is to provide infant-holding means which can be readily attached to and detached from a seat.

Another object of this invention is to provide a seat attachment in which an infant may be readily placed and secured and from which an infant may be readily released.

A further object of this invention is to provide an attachment which will safely hold an infant on a seat and, at the same time, permit considerable freedom of movement of the infant.

Still another object of this invention is to provide an infant-holding attachment for stools or the like which can be readily folded into compact size for storage.

A still further object of this invention is to provide an infant-holding attachment adapted for many different types of seats and which will readily accommodate infants of various sizes.

Still another object of this invention is to provide a simple, economically and easily constructed infant-holding attachment which is very durable.

Other objects and the features and advantages of the present invention will become more fully apparent from the following detailed description taken in conjunction with the accompanying drawings which illustrate a preferred embodiment of the invention and in which:

FIGURE 1 is a perspective view of an infant-holding attachment constructed in accordance with the principles of the present invention secured to a stool seat and holding an infant thereon;

FIGURE 2 is a rear elevational view of the attachment of FIGURE 1;

FIGURE 3 is a bottom plan view of the holding attachment of FIGURE 1; and

FIGURE 4 is a sectional view, on an enlarged scale, taken substantially along lines IV—IV of FIGURE 2.

As shown on the drawings:

In general, the supplementary seat and holding attachment of the present invention includes a base or bottom **10** adapted to be secured on the seat of a stool by means of a pair of straps **11** and **12** extending under the seat, a band or girdle **13** for encircling the lower portion of the infant's torso having a pair of openings **14** and **15** through which the infant's legs may protrude and having its lower edge portion secured to the peripheral edge portion of the bottom **10**, and a pair of straps **16** secured to the upper portions of band **13** for releasably extending over the infant's shoulders so that an infant may be readily placed and held in the attachment, as best illustrated in FIGURE 1.

The bottom **10** and the band **13** are preferably of a flexible fabric such as canvas, which will allow considerable freedom of movement of the infant and can be

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easily and economically manufactured. Also, the attachment may be readily folded into compact size for storage.

The stool straps **11** and **12** are preferably of heavy flexible fabric and are disposed at right angles and secured against the lower surface of the bottom **10** by means of stitching **17**. Each of the stool straps has a conventional self-locking buckle thereon, generally designated by the reference numeral **18**, the buckle having a generally rectangular frame **19** and a serrated tongue **20** slidable thereon. One end portion of each strap is looped around a central integral bar of the frame **19**, the looped end being secured to the bottom **10** to secure the buckle **18** to the strap. The other end portion of each strap may extend between the serrated tongues **20** and the inside end of one end portion of the frame **19** so as to be locked therein by tension applied to the strap and yet be readily releasable.

To secure the band **13** to the bottom, the lower end of the band is aligned with the peripheral edge of the bottom, a securing and protective strip **21** is folded over the edge portions of the band and bottom, and stitching **22** secures the strip and the edge portions of the band and bottom together, as best illustrated in FIGURES 3 and 4. It may be noted that the stitching **22** also secures the looped end of each of the straps **11** and **12** to the adjacent portion of the strap and to the bottom and holds the buckles **18** to the straps.

In order to prevent tearing of the band **13** from the edges of the leg openings **14** and **15**, the edges of the fabric may be appropriately hemmed but, preferably, securing strips **23** and **24**, respectively, are folded over the edges of the openings and stitched to the band.

One end of each of the shoulder straps **16** is secured to a portion of the band **13** upwardly from one of the leg openings by stitching it thereto. The other end of each of the straps **16** is movable in a buckle **25** of conventional construction similar to the buckle **18** above described. To secure each buckle **25** to the band **13**, a short strap is looped around a central integral bar thereof and stitched to the band **13**.

To prevent tearing of the band **13** from the upper edge thereof, a securing strip **27** may be folded over the upper edge and stitched to the band. The stitching securing the strip **27** to the band may also serve to secure one end of each of the straps **16** to the band and the short looped buckle-securing straps to the band.

In order to prevent the shoulder strap **16** from sliding off the infant's shoulders, front and back connecting straps **28** and **29**, respectively, may be disposed between the shoulder straps. The connecting straps **28** and **29** may be stitched to the shoulder straps in desired position, but preferably are slidably disposed on the shoulder straps so as to be readily adjustable to accommodate infants of various sizes.

To prevent separation of the strap **12** and the base **10** and the band **13** at the point of greatest stress when the infant is moving or rocking in the attachment, the strap **12** is slidably secured on the base **10** and the band **13** by extending it first through a grommet **30**, located in the bottom **10**, then upwardly through a grommet **30***a* located in the band **13** between the openings **14** and **15** and then downwardly again to extend through a second grommet **30***b* in the bottom **10**.

In order to facilitate ready placement of the infant into the holding attachment and easy removal of the infant from the attachment, a conventional zipper means 31 is provided at the rearward portion of the attachment and extends vertically up the back portion of the girdle 13.

Thus, before the attachment is put into use all of the buckles will preferably be open and the zipper 31 will be in an unfastened position. The base is then secured to a stool or the like by extending the straps 11 and 12 under the stool and buckling the distal ends of the straps in the buckles 18. Thereafter, the infant is placed on the base portion of the attachment with its legs protruding through the openings 14 and 15. The zipper 31 is then raised to close the back portion of the girdle 13 and to completely enclose the infant's torso. The straps 16 are then extended over the shoulders of the infant and buckled in the rear by means of buckles 25. The connecting straps 28 and 29 are then adjusted to prevent the shoulder straps 16 from sliding off the infant's shoulders.

Although the infant-holding attachment is illustrated as secured to a conventional restaurant type stool, it will be apparent that the attachment is readily adaptable for various other types of seats.

Thus, there is provided an attachment which can be readily attached to a stool seat or the like in which an infant can be readily placed, which will comfortably, securely and safely hold an infant, from which an infant can be readily removed, which can be easily and economically manufactured, and which can be compactly folded for carrying or storage.

It will be understood that modifications and variations may be effected without departing from the spirit and scope of the novel concepts of the present invention.

I claim as my invention:

1. In an infant-holding attachment for a seat,
a flexible fabric bottom arranged for disposition on the seat,
a pair of grommets inserted in the front portion of said bottom,
a flexible fabric band extending upwardly from said bottom for encircling a lower portion of the infant's torso,
the lower edge of said band being aligned with the peripheral edge of said bottom,
a strip folded lengthwise over the edge portions of said band and said bottom,
stitching extending through the strip and the edge portions of the band and bottom and securing them together,
said band having a pair of recesses extending upwardly from the bottom to provide openings through which the infant's legs may protrude,
a pair of bottom straps secured in crossing relation to the lower surface of said bottom and arranged to extend under the seat for securing the bottom thereto,
one of said bottom straps extending through said grommets,
a pair of shoulder straps,
each of said shoulder straps being secured at one end portion to an upper portion of said band and arranged to extend over one shoulder of the infant,
buckle means releasably securing the other end portion of each shoulder strap to an opposite portion of the band,
a transverse strap connecting said shoulder straps for preventing outward movement of the shoulder straps off the infant's shoulders, and
a zipper secured to a back portion of said band and arranged vertically to provide lateral expansibility to to said band.

2. In an infant-holding attachment for a seat,
a bottom member arranged for disposition on the seat,
a pair of spaced coplanar grommets inserted marginally at a front portion of said bottom member,

a pair of bottom straps secured to said bottom member and arranged to extend under the seat in crossing relation to tightly secure said bottom member to the seat,
one of said bottom straps extending through said grommets,
a fabric band affixed to the periphery of said bottom member and extending upwardly for encircling a lower portion of the infant's torso,
zipper means secured vertically to a back portion of said band to provide lateral expansibility of said band, and
flexible means connected to said band and arranged to extend over the shoulders of the infant to hold the infant to said bottom member on the seat.

3. In an infant-holding attachment for a seat,
a flat bottom member arranged for disposition on the seat,
strap means firmly attached to said bottom member and connectable to the seat for securely fastening the bottom member to the seat,
a flexible band affixed to the periphery of said bottom member and extending upwardly therefrom for completely encircling a lower portion of the infant's torso,
means forming a pair of spaced openings in said band extending upwardly from said bottom member through which, respectively, the infant's legs may extend, and
a pair of shoulder straps connected to said band and arranged to extend over the infant's shoulders for securely holding the infant in the attachment on the seat.

4. In an infant-holding attachment for a seat,
a flat bottom member arranged for disposition on the seat,
a pair of bottom straps affixed in crossing relation to said bottom member and arranged to extend under the seat for detachably securing the bottom member thereto,
a fabric band affixed to the periphery of said bottom member and extending upwardly therefrom for completely encircling a lower portion of the infant's torso,
means forming a pair of spaced openings in said band extending upwardly from said bottom member through which, respectively, the infant's legs may extend,
a pair of shoulder straps connected to said band and arranged to extend over the infant's shoulders, and
means for interconnecting said shoulder straps across the front and the back of the infant whereby the infant is securely held within the attachment on the seat.

5. In an infant-holding attachment for a seat,
a generally flat bottom member arranged for disposition on the seat,
a pair of bottom straps affixed in crossing relation to said bottom member and arranged to extend under the seat for detachably securing the bottom member thereto,
a fabric band affixed to the periphery of said bottom member and extending upwardly therefrom for encircling a lower portion of the infant's torso,
a pair of elongated shoulder straps secured respectively at the ends thereof in mutually spaced relation to front and rear portions of said band and arranged to extend over the infant's shoulders, and
a vertically extending zipper means situated in the rear portion of said band between said shoulder straps secured thereto to selectively vertically open the rear portion of said band between said shoulder straps.

6. In an infant-holding attachment for a seat,
a bottom member arranged for disposition on the seat,
strap means attached to said bottom member for fastening the bottom member on the seat,

a flexible band affixed to the periphery of said bottom member and extending upwardly therefrom for completely encircling a lower portion of the infant's torso,

a pair of shoulder straps attached to said band in spaced parallel relation to extend over the infant's shoulders,

at least one connecting strap extending transversely to said shoulder straps and connected at opposite ends thereof to said shoulder straps respectively,

said connecting strap including means operative to provide adjustably slidable movement of said connecting strap along the length of said shoulder straps.

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