My invention relates to a bottle adapted for blood transfusions or parenteral administration of fluids.

Among the objects of my invention is to provide a sealing plug for a bottle having a sterilized top portion, maintained in sterile condition by a covering member. Another object is to supply said covered sterilized top portion with depressed indicators to guide a needle through the plug for passage of fluid either in or out of the bottle.

My invention also contemplates such other objects, advantages and capabilities as will later more fully appear and which are inherently possessed by my invention.

While I have shown in the accompanying drawing a preferred form of my invention, yet I wish it understood that the same is susceptible of modification and change without departing from the spirit of my invention.

Referring to the drawing,

Fig. 1 is a perspective view of the bottle construction; Fig. 2 is a sectional view of the upper portion of the container; Fig. 3 is a similar view with the closure construction in closed position shown in cross section; Fig. 4 is a view similar to Fig. 3 but showing the cover member being removed, preparatory to the insertion of a needle; Fig. 5 is a top plan view of the cover member; Fig. 6 is a top plan view of the plug; and Fig. 7 is a bottom plan view of the plug.

The embodiment selected to illustrate my invention comprises a bottle 10 formed of glass or any other suitable material, having an open mouth 11.

Extending within the open mouth 11 is the body portion 12 of a plug 13 of pierceable rubber or the like. A flange 14 at the upper point of the body portion 12 provides a rim 15 which rests on top of the walls 16 of the bottle 10 surrounding the mouth 11.

The body portion 12 has a hollowed out portion 17 extending upwardly therein from the bottom thereof to that point 18 slightly below where the body portion ends and the flange 14 begins. The open bottom of hollowed out portion 17 communicates with the interior of bottle 10.

In the top 18 of flange 14 are cut eight spaced depressions 20 and 21. Depression 21 is marked "Out" and depression 20 is marked "In." An upwardly extending opening 22 in the wall above hollowed out portion 17 is positioned directly below depression 20.

A rubber covering member 24 having a substantially flat body portion 25 co-extensive with top 19 is positioned with its sterilized bottom portion on top 19 and covers depressions 20 and 21.

A cap 26 made of light metal or the like having screw threaded side walls 21 is positioned so that said walls 27 interengage with screw threads 28 on the neck 29 of bottle 10. The cap 26 has a top flange portion 30 which bears against the top 31 of body portion 23 of covering member 24.

When it is desired to add blood or plasma to bottle 10, the user grasps tab 32 which extends upwardly from and is an integral part of the top 30 of covering member 24 and pulls it away from flange 30 and exposing for the first time depressions 20 and 21 which have previously been sterilized and kept sterile by sterilized covering member 24, said tab 32 being an integral part of rubber covering member 24 permits the covering member to stretch, slip out from under and be removed from said holding member without damage to said covering member, said holding member and said plug. The user then places a needle at opening 31 and pierces the top 13, extending through hollowed out portion 17 into the interior of the bottle 10, for the passing therein of the blood or plasma.

When it is desired to remove plasma from the container 10, a needle connected to a suitable filtering device is pushed through the depression 21 marked "In." A long aspirating needle then is pushed through the hole at depression 20, marked "Out," and the plasma is aspirated into a desired bottle.

Having thus described my invention, I claim:

1. A blood transfusion bottle comprising walls forming a hollow container portion and ending in a screw threaded neck and open mouth, a plug of pierceable rubber material having a body portion extending within said open mouth, and a flange resting on the top of the walls for sealing said mouth, said plug having a sterilized top portion having a pair of spaced depressions, a rubber covering member having a sterilized bottom portion substantially co-extensive with said top portion of said plug and positioned thereagainst to maintain said top portion in sterilized condition, and a holding member of light metal material having a vertical screw threaded portion adapted to interengage with the screw threaded neck and having a horizontal portion engaging the top of said covering member, said covering member having an integral tab adapted to be grasped for removal of said covering member from said plug and exposing the top portion thereof, either of said depressions adapted to receive and guide a needle, said plug adapted to be pierced by said
needle so that fluid may be added to or withdrawn from the bottle.

2. A parenteral bottle comprising a hollow container portion having an open mouth, a plug of pierceable rubber material sealing the open mouth of said container portion, said plug having a sterilized top portion, a rubber covering member having a sterilized bottom portion positioned against said sterilized top portion of said plug and maintaining it in sterilized condition, and a holding member of light metal material attached to the neck of said container, said holding member having a horizontal portion engaging said covering member and adapted to normally hold said covering member against said plug, said covering member having an integral tab, said holding member and said covering member adapted upon a user grasping and pulling said tab to stretch said covering member to permit said covering member to be removed from said holding member without damage to said covering member, said holding member and said plug.

JOHN E. B. SHAW.