[0004] As the adapter is threaded onto the bottle, the lowermost rim of the adapter moves increasingly closer to the projecting ring. As the gap therebetween decreases, a finger of the caregiver or other person connecting the delivery assembly to the bottle can be pinched between the adapter the projecting ring. In other instances, the projecting ring can also make it more burdensome to assemble the bottle with a bottle holder, such as holding bag in which the neck of the bottle must be inserted through a relatively small opening in the holding bag.

SUMMARY

[0005] In one aspect, a bottle packaging generally comprises a bottle and a closure member. The body generally comprises a body having an upper end and a closed lower end, a shoulder disposed generally at the upper end of the body, and a neck extending up from the shoulder and defining an open top of the bottle. The neck has an inner surface, an outer surface and a groove in the outer surface of the neck. The groove extends circumferentially about substantially an entire circumference of the neck and is disposed longitudinally intermediate the shoulder of the bottle and the open top of the bottle. The groove has an upper reach and a lower reach and a width extending between the upper and lower reaches. The lower reach of the groove is longitudinally spaced from the shoulder of the bottle a distance of greater than or equal to the width of the groove. The neck includes a lower portion extending from the lower reach of the groove to the shoulder of the bottle, and an upper portion extending from the open top of the bottle to the upper reach of the groove. The upper and lower portions of the neck each have an outer transverse cross-sectional dimension. The outer transverse cross-sectional dimension of the upper portion is substantially equal to the outer transverse cross-sectional dimension of the lower portion. The closure member is releasably connectable with the neck of the bottle to close the open top of the bottle.

[0005a] In another aspect, there is provided a bottle packaging comprising:

a bottle comprising a body having an upper end and a closed lower end, a shoulder disposed generally at the upper end of the body, a neck extending up from the shoulder and defining an open top of the bottle, the neck having an inner surface, an outer surface and a groove in the outer surface of the neck, the groove extending circumferentially about substantially an entire circumference of the neck and being disposed longitudinally intermediate the shoulder of the bottle and the open top of the bottle, said groove having an upper reach and a lower reach and a width extending between the upper and lower reaches, the lower reach of the groove being longitudinally spaced from the shoulder of the bottle a distance of greater than or equal to the width of the groove, wherein the neck includes a lower portion extending from the lower reach of the groove to the shoulder of the bottle and an upper portion extending from the open top of the bottle to the upper reach of the groove, the upper and lower portions of the neck each having an outer transverse cross-sectional dimension wherein the outer transverse cross-sectional dimension of the upper portion is substantially equal to the outer transverse cross-sectional dimension of the lower portion;

a closure member releasably connectable with the neck of the bottle to close the open top of the bottle,

a puncturable seal closure positioned between the open top of the bottle and the closure member, and

a delivery assembly configured for delivering contents from the bottle, the delivery assembly comprising a puncturing member for puncturing the seal closure.

[0005b] In another aspect, there is provided a bottle packaging comprising:

a bottle comprising a body having an upper end and a closed lower end, a shoulder disposed generally at the upper end of the body, a neck extending up from the shoulder and defining an open top of the bottle, the neck having an inner surface, an outer surface and a groove in the outer surface of the neck, the groove extending circumferentially about substantially an entire circumference of the neck and being disposed longitudinally intermediate the shoulder of the bottle and the open top of the

bottle, the groove being defined by a circumferential floor and opposing upper and lower circumferential sidewalls, wherein the upper circumferential sidewall is chamfered from adjacent the outer surface of the neck toward the circumferential floor, and the lower circumferential sidewall is concave from adjacent the outer surface of the neck toward the circumferential floor, the lower circumferential sidewall being spaced longitudinally above the shoulder a distance of at least 1.0 mm;

a closure member releasably connectable with the neck of the bottle to close the open top of the bottle,

a puncturable seal closure positioned between the open top of the bottle and the closure member, and

a delivery assembly configured for delivering contents from the bottle, the delivery assembly comprising a puncturing member for puncturing the seal closure.

[0005c] In another aspect, there is provided a bottle packaging comprising:

a bottle comprising a body having an upper end and a closed lower end, a shoulder disposed generally at the upper end of the body, a neck extending up from the shoulder and defining an open top of the bottle, the neck having an inner surface, an outer surface, at least one thread on the outer surface of the neck, and a groove in the outer surface of the neck, the groove extending circumferentially about substantially an entire circumference of the neck and being disposed longitudinally intermediate the shoulder of the bottle and said at least one thread on the outer surface of the neck,

a closure member removably threaded on said at least one thread on the outer surface of the neck of the bottle to close the open top of the bottle, the closure member including a detent and/or a sealing member removably seated in the groove of the neck of the bottle,

a puncturable seal closure positioned between the open top of the bottle and the closure member, and

a delivery assembly configured for delivering contents from the bottle, the delivery assembly comprising a puncturing member for puncturing the seal closure.

[0006] In another aspect, a bottle packaging generally comprises a bottle and a closure member. The bottle generally comprises a body having an upper end and a closed lower end, a shoulder disposed generally at the upper end of the