

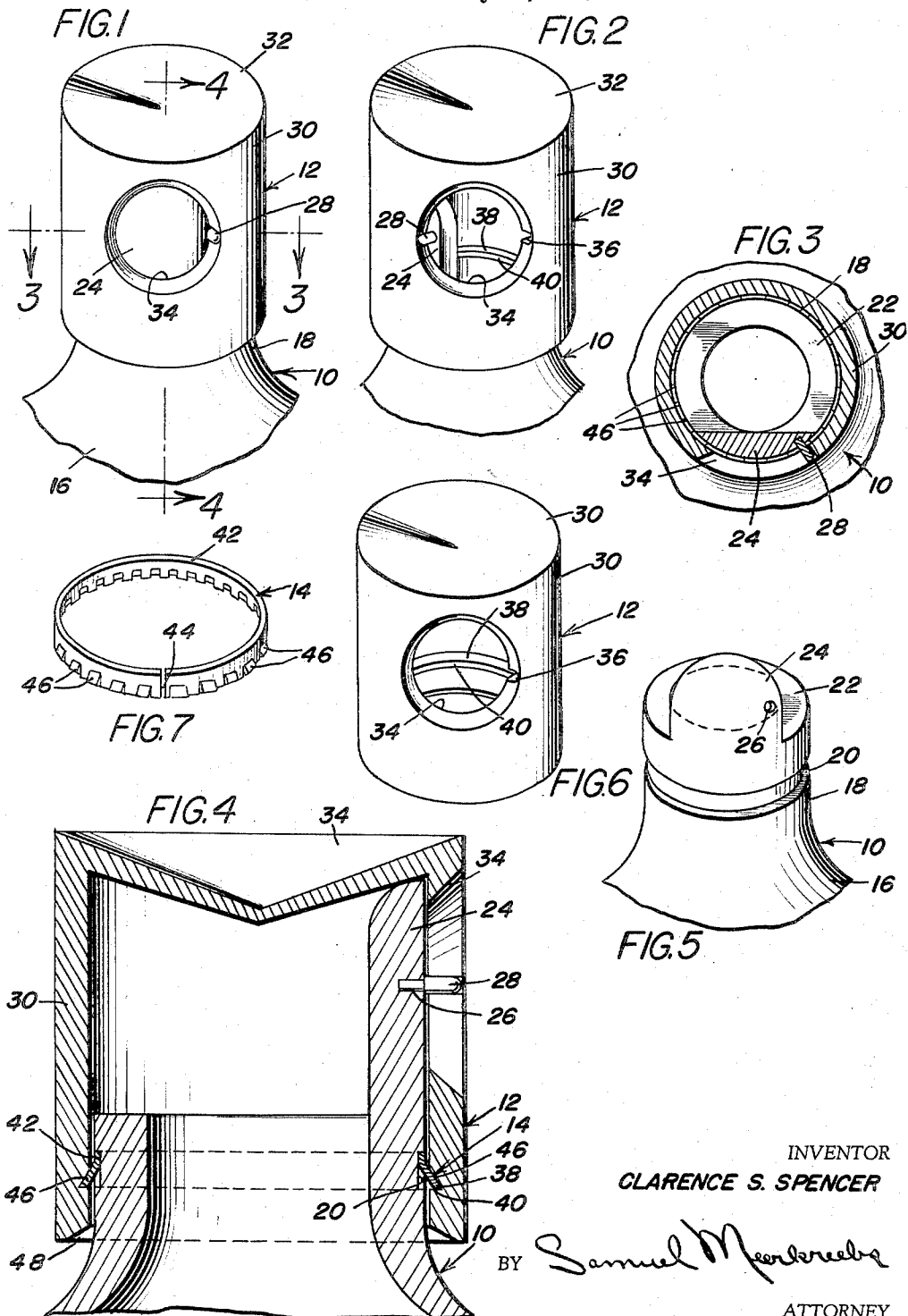
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C. S. SPENCER

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DISPENSING-CAP FOR CONTAINERS

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INVENTOR
CLARENCE S. SPENCER

BY

Samuel M. [Signature]

ATTORNEY

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DISPENSING-CAP FOR CONTAINERS

Clarence Sydney Spencer, Creighton Mine, Ontario,
Canada

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3 Claims. (Cl. 222—153)

This invention relates generally to an improved dispensing-cap for containers of the character utilized for dispensing tooth powder or the like.

A primary object of invention is to provide a dispensing-cap for a container of the character set forth, the dispensing-cap including means for readily dispensing material contained within the container and means for preventing dispensing of the material.

Another object of the invention is to provide a dispensing-cap for containers which includes a cylindrical cap telescopically received on the tubular neck portion of a container, said neck and cap including cooperating means permitting material to be dispensed from the container and preventing dispensing of the material, the cap and neck of the container including cooperating lock means therebetween facilitating the assembly of the cap on the neck of the container preventing relative longitudinal movement therebetween.

Other objects and advantages of the invention will become apparent during the course of the following description. In the drawing there is shown one preferred embodiment of the invention. In this showing:

Figure 1 is a perspective view of a fragmentary portion of a container showing a dispensing-cap mounted thereon, the parts being shown in a closed condition;

Figure 2 is a perspective view similar to Figure 1, showing the parts in an open condition;

Figure 3 is a transverse section taken on line 3—3 of Figure 1;

Figure 4 is an enlarged vertical section taken on line 4—4 of Figure 1;

Figure 5 is a fragmentary perspective view of the neck portion of the container upon which the dispensing-cap is mounted;

Figure 6 is a perspective view of the dispensing-cap; and

Figure 7 is a perspective view of a lock ring utilized for mounting the dispensing-cap on the neck portion of the container.

Referring to the drawing, a fragmentary portion of a container constructed of any suitable material is indicated generally at 10, the container having mounted thereon a dispensing-cap indicated generally at 12 which is retained thereon by means of a lock ring indicated generally at 14.

The container 10, see Figure 5, includes a body portion 16, a fragmentary portion thereof being shown, terminating in a tubular neck 18 having a circular cross section. The neck 18 has extending about an intermediate portion thereof an annular groove 20. Extending longitudinally from the upper end 22 of the neck and from one side thereof is an arcuate gate or shield 24, the outer surface of which being in co-planar relationship with the outer surface of the neck 18. The neck 18 com-

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municates with the interior of the container 16. The plate 24 has formed therein a blind bore portion 26 for receiving a suitably conformed abutment pin 28 which will extend laterally from the shield 24 when the dispensing-cap is assembled on the container neck.

The cap 12 includes a cylindrical body 30, closed at its top as indicated at 32 and a countersunk transverse aperture 34 which will overlie the outer surface of the shield 24 when the dispensing-cap is closed as seen in Figure 1. Extending transversely of the aperture 34 is a groove 36 which will be in alignment with the abutment pin 28 for orienting the cap in its closed position, and engaging the diametrical opposed side edge portion when the cap is open as seen in Figure 2. The body 30 incorporates about the inner periphery thereof an annular groove 38 alignable with the groove 20 of the neck 18, the groove 38, see Figure 4, having a V-shaped cross section forming a shoulder 40 normal to the longitudinal axis of the cap.

The lock ring 14 includes a circular body or ring 42 split transversely as indicated at 44 to facilitate the disposition of the body in the annular groove 20 of the neck. Formed in circumferentially spaced relationship about the body 42 are a plurality of resilient laterally extending teeth 46.

The body 30 incorporates a lower inwardly beveled edge 48 facilitating the assembly of the dispensing-cap on the neck 18.

Considering Figures 5 and 7, the lock ring 14 is first disposed in the annular groove 20 of the neck 18 of the container. Next the cap 12 is telescoped onto the neck 18, the edge 48 of said cap engaging the teeth 46 of the lock ring and disposing the same inwardly until said lock teeth engage the shoulder 40 of the groove 38. The lock ring 14 will permit relative rotation of the cap with respect to the neck, but will prevent longitudinal displacement of the cap relative to the neck, the lock teeth 46 being urged into greater locking engagement in the groove 38 when such longitudinal displacement is attempted. After the cap has been disposed on the neck, the abutment pin 28 is inserted in the bore 26, being retained therein by means of a suitable adhesive.

It is to be understood that the form of the invention shown and described is to be taken as the preferred example of the same and that various changes in the size, shape and arrangement of the parts may be made as do not depart from the spirit of the invention or the scope of the appended claims.

I claim:

1. In combination, a container including a tubular neck having a circular cross section, an arcuate shield extending longitudinally from a fragmentary circumferential portion of one side of said neck, a cylindrical cap rotatably received on said neck and including a transverse aperture alignable with said shield for preventing the contents of the container from being dispensed, and lock means engaged between said cap and neck permitting relative rotation therebetween and preventing removal of said cap from said neck, said shield including lateral abutment means projecting into said aperture limiting relative rotation between said cap on said neck.

2. In the combination as set forth in claim 1 in which said lock means includes aligned annular grooves on respective adjacent outer and inner surfaces of said neck and cap, and a lock ring in one of said grooves, said lock ring including circumferentially spaced, laterally extending and displaceable lock teeth extending into said other groove.

3. In the combination as set forth in claim 2 in which said one groove is formed in the outer periphery of said neck, the other groove is formed on the inner periphery of said cap and includes an inwardly extending shoulder portion engageable with said circumferentially spaced, laterally extending and displaceable lock teeth for engaging the terminal ends thereof during attempted longitudinal displacement of said cap relative to said neck.

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