May 11, 1937. H. JEZLER 2,080,135

DEVICE FOR DISPENSING PASTY OR LIQUID SUBSTANCES

Filed June 13, 1936

Fig. 1

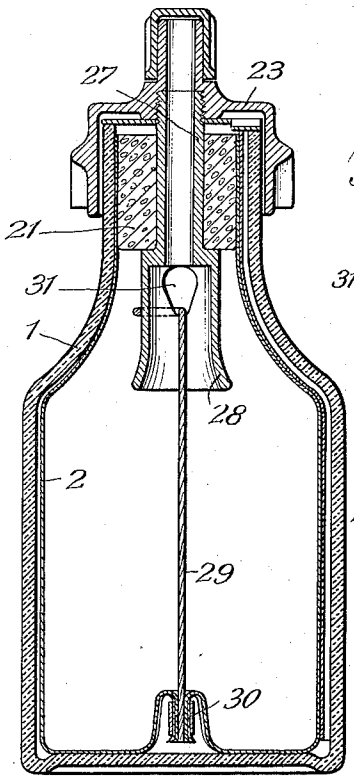


Fig. 3

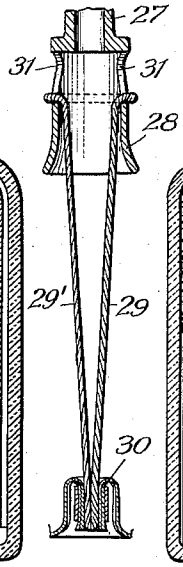
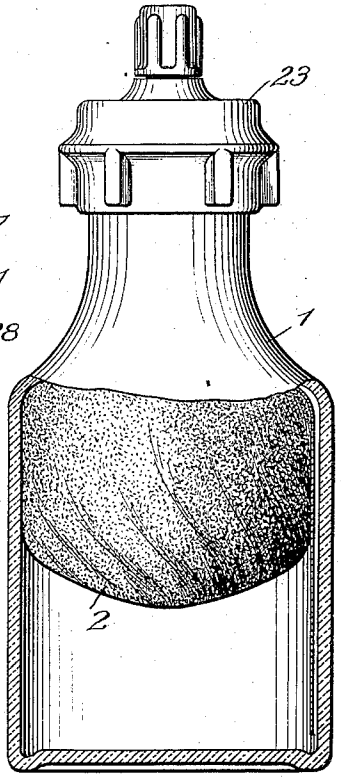


Fig. 2



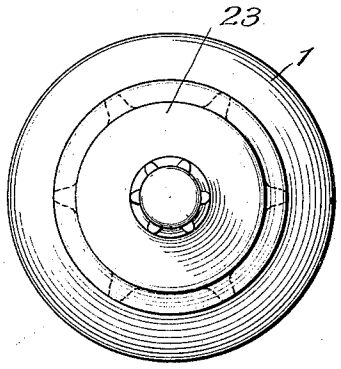


Fig. 4

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DEVICE FOR DISPENSING PASTY OR LIQUID SUBSTANCES

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Application June 13, 1936, Serial No. 85,106
In Switzerland May 8, 1936

3 Claims. (Cl. 221—60)

The present invention relates to an improvement of the device for dispensing pasty or liquid substances as claimed in my copending application for Letters Patent Ser. No. 75,113.

In the device as disclosed in the prior patent specification in which the pasty or liquid substances are contained in a bag which is provided with a resilient wall and inserted in a solid enclosure and is wound up by twisting it for the purpose of squeezing out the content of the bag an appliance is provided about which the bag is wound, the lower end of the bag being, advantageously, secured to the lower end of the appliance.

In the constructional examples of the device described in the prior patent specification, the appliance is in the form of a rod or tube. Incidental to the appliance being turned the winding up of the bag begins and after a few seconds the bag is fully wound up and the content squeezed out. As the path along which the force acts in squeezing out the content of the bag is relatively short, the magnitude of the force is relatively great. In order to reduce this force and increase the path thereof in such manner that more turns for squeezing out the content are necessary, according to the present invention, the appliance is made in two parts, a tubular upper part being provided which serves for discharging the squeezed out bag content, and a lower part which is provided with one or more elements similar to tension members which are secured to a lower portion of the bag and are held to the tubular part above, so that by turning the latter, at first, the elements are wound up by twisting them, thereby raising said lower bag portion, and by continuing turning the bag is wound about the elements.

In the accompanying drawing a constructional form of the invention is shown by way of example only, in which—

Fig. 1 shows a sectional elevation of the device;

Fig. 2 is an elevation showing certain parts in section;

Fig. 3 shows a part of Fig. 1 as seen at right angles thereto, and

Fig. 4 shows a plan view of Fig. 1.

In the solid enclosure constructed as a container 1, a bag 2 is inserted and held to the neck of the container in a manner similar to that described in the prior patent specification referred to above by means of a plug 21. The appliance about which the bag is wound is composed of a tubular part 27 which is rotatably mounted in the plug 21 and is firmly secured to a capsule 23. Below the plug 21 the tubular portion is widened, at 28. The lower part of the appliance is composed of two elements 29 and 29' which are similar to tension members and are provided by a cord. The ends of this cord connect with the lower end of the bag 2, at 30, whereas above the cord is held to the tubular part by being passed through two oppositely disposed apertures 31.

Thus, if by means of the capsule 23 the appliance is turned, the two elements 29 and 29', at first, wind up by intertwisting thereby raising the lower portion of the bag and thus squeezing out the content of the same. On continuing the winding operation the elements can be imparted a double twist, whereupon the bag winds about the two elements.

For squeezing out the content of the bag, a greater number of turns of the capsule is required than if the bag is wound about a rod, the force to be applied being correspondingly reduced.

Instead of two elements similar to tension members only one such element may be provided.

What I claim is,

1. In a device for dispensing pasty as well as liquid substances, a solid container, a bag having a flexible wall for containing the substance to be dispensed held in said container, an appliance for winding up said bag by twisting it for thus squeezing out its content, comprising a tubular upper part for educting said squeezed out content, and at least one element similar to a tension member and connecting said upper part to a lower portion of said bag, for first raising said portion as said element is twisted by means of said upper part and then winding said bag about said element serving as a core as the twisting continues.

2. In a device for dispensing pasty as well as liquid substances, a solid container, a bag having a flexible wall for containing the substance to be dispensed held in said container, an appliance for winding up said bag by twisting it for thus squeezing out its content, comprising a tubular upper part for educting said squeezed out content, and having two opposite apertures, and two elements similar to tension members constituted by a cord passed through said apertures and connected to a lower portion of said bag, for first raising said portion as said elements are twisted by means of said upper part and then winding said bag about said elements serving as a core as the twisting continues.

3. In a device for dispensing pasty as well as liquid substances, a solid container having a neck, a plug inserted in said neck, a bag having

a flexible wall for containing the substance to be dispensed held in said container between said neck and said plug, an appliance for winding up said bag by twisting it for thus squeezing out its content, comprising a tubular upper part rotatably mounted in said plug for educting said squeezed out content, a capsule connected to said upper part exteriorly of said plug, an apertured lower part, and a cord passed through two opposite apertures in said upper part and connected to a lower portion of said bag, for first raising said portion and then winding said bag about said cord as a core.

HUBERT JEZLER.