

# PATENT SPECIFICATION

DRAWINGS ATTACHED

905,286



Date of Application and filing Complete Specification: Dec. 7, 1960.

No. 13439/62.

(Divided out of No. 904,010).

Complete Specification Published: Sept. 5, 1962.

Index at acceptance:—Class 14(2), E10.

International Classification:—B67b.

## COMPLETE SPECIFICATION

### Improvements in or relating to Drinking Straws and Drinking Appliances

I, YAT CHUEN YUEN, of 214A Des Voeux Road Central, Hong Kong, a Chinese Citizen, do hereby declare the invention for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to drinking straws and to drinking appliances of the kind comprising a beverage container, a closure therefor, and a straw normally held down in the container by the closure.

In the specification of my pending Patent Application No. 42079/60, (Serial No. 904,010), from which the present Application is divided out, I have described a drinking straw comprising a plurality of parts slidably mounted one on the other, one of the parts having an open end and forming a mouth-piece. In the said specification I have also described a drinking appliance of the kind referred to.

A drinking straw made in accordance with the present invention is characterised in that it comprises a helically wound strip, the overlapping convolutions of the straw being free to slide over one another.

The straw may be cylindrical throughout its length or it may be of conical formation.

A drinking appliance of the kind referred to made in accordance with the invention is characterised in that the straw comprises a helically wound strip, the overlapping convolutions of the straw being free to slide over one another.

The straw may be made of paper or any other suitable material, but in a preferred embodiment it is made of synthetic plastics material.

Figs. 1 and 2 of the accompanying drawings illustrate two embodiments of the present invention.

The straw shown in Fig. 1 is cylindrical

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and is made in one piece by helically winding a strip of synthetic plastics or other waterproof material. No adhesive is used to bind the convolutions together, so that the overlapping convolutions are free to slide over one another in one direction to reduce the length of the straw and in the other direction to extend the length of the straw. The arrangement is such that when the closure is applied to the container the overlapping convolutions are free to slide over one another to reduce the length of the straw while when the closure is removed the convolutions are free to slide over one another in the opposite direction to extend the length of the straw and bring the upper end or mouthpiece into the drinking position.

The straw shown in Fig. 2 is similar to that shown in Fig. 1 but differs therefrom in that instead of being cylindrical the straw is of conical formation, tapering inwardly from bottom to top.

In both Figures the straw is wound with the convolutions pressed tightly against one another to provide a liquid-tight seal between the overlapping parts of the convolutions.

#### WHAT I CLAIM IS:—

1. A drinking straw characterised in that it comprises a helically wound strip, the overlapping convolutions of the straw being free to slide over one another.

2. A drinking straw according to claim 1 characterised in that it is cylindrical throughout its length.

3. A drinking straw according to claim 1 characterised in that it is of conical formation.

4. A drinking appliance of the kind comprising a beverage container, a closure therefor, and a straw normally held down in the container by the closure characterised by a straw made according to any one of claims 1 to 3.

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This invention relates to drinking straws and to drinking appliances of the kind comprising a beverage container, a closure therefor, and a straw normally held down in the container by the closure.

In the specification of my pending Patent Application No. 42079/60, (Serial No. 904,010), from which the present Application is divided out, I have described a drinking straw comprising a plurality of parts slidably mounted one on the other, one of the parts having an open end and forming a mouthpiece. In the said specification I have also described a drinking appliance of the kind referred to.

A drinking straw made in accordance with the present invention is characterised in that it comprises a helically wound strip, the overlapping convolutions of the straw being free to slide over one another.

The straw may be cylindrical throughout its length or it may be of conical formation. A drinking appliance of the kind referred to made in accordance with the invention is characterised in that the straw comprises a helically wound strip, the overlapping convolutions of the straw being free to slide over one another.

The straw may be made of paper or any other suitable material, but in a preferred embodiment it is made of synthetic plastics material.

Figs. 1 and 2 of the accompanying drawings illustrate two embodiments of the present invention.

The straw shown in Fig. 1 is cylindrical

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and is made in one piece by helically winding a strip of synthetic plastics or other waterproof material. No adhesive is used to bind the convolutions together, so that the overlapping convolutions are free to slide over one another in one direction to reduce the length of the straw and in the other direction to extend the length of the straw. The arrangement is such that when the closure is applied to the container the overlapping convolutions are free to slide over one another to reduce the length of the straw while when the closure is removed the convolutions are free to slide over one another in the opposite direction to extend the length of the straw and bring the upper end or mouthpiece into the drinking position.

The straw shown in Fig. 2 is similar to that shown in Fig. 1 but differs therefrom in that instead of being cylindrical the straw is of conical formation, tapering inwardly from bottom to top.

In both Figures the straw is wound with the convolutions pressed tightly against one another to provide a liquid-tight seal between the overlapping parts of the convolutions.

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1. A drinking straw characterised in that it comprises a helically wound strip, the overlapping convolutions of the straw being free to slide over one another.

2. A drinking straw according to claim 1 characterised in that it is cylindrical throughout its length.

3. A drinking straw according to claim 1 characterised in that it is of conical formation.

4. A drinking appliance of the kind comprising a beverage container, a closure therefor, and a straw normally held down in the container by the closure characterised by a straw made according to any one of claims 1 to 3.



5. A drinking straw made substantially as described herein with reference to and as illustrated in Fig. 1 or Fig. 2 of the accompanying drawings.

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