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(54) Container for transporting loose products, in particular powder products.

(57) The present invention relates to a container for transporting loose products, in particular powder products, such as very toxic products, which comprises a very high strength holding body (1) provided with raising straps and having a loading inlet (3) and a discharging outlet (4).

Inside the holding body (1) there is provided a bag (10) provided with a loading sleeve (11) and a discharging sleeve (12) which sleeves can be arranged respectively at the loading inlet (3) and discharging outlet (4), the inner bag (10) being made of an impermeable material and being adapted to be tightly closed.

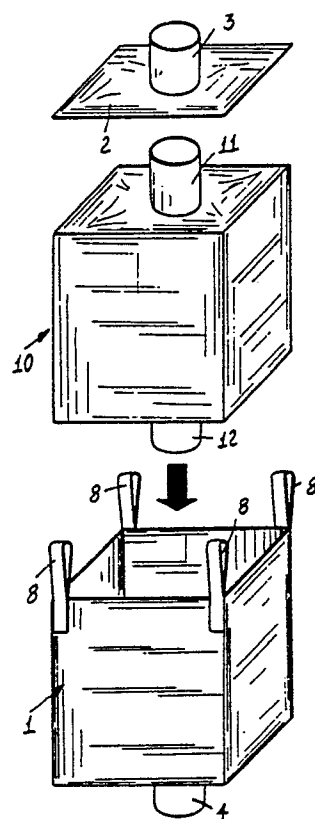


Fig. 1

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CONTAINER FOR TRANSPORTING LOOSE PRODUCTS,IN PARTICULAR POWDER PRODUCTS

BACKGROUND OF THE INVENTION

The present invention relates to a container or vessel for transporting loose products and,in particular powder materials such as highly toxic powder materials.

As is known,several types of containers for transporting loose products or materials are presently commercially available which,according to an implementation,comprise a preferably parallelepipedal body provided,on a base thereof,with gripping straps or handles to be gripped for raising and handling said container.

These known containers are usually made of very high strength fabrics or the like materials and are able of holding loose products.However,they are not able of holding toxic materials,mainly because of their poor tightness.

SUMMARY OF THE INVENTION

Accordingly,the task of the present invention is to overcome the above mentioned drawback,by providing a container for transporting loose products or materials,in particular very toxic powder products,which is adapted to assure a perfect tightness closure so as to prevent said products from leaking to the outside.

Within the scope of the above task,it is a main object of the present invention to provide such a loose product container which can be easily and quickly handled while affording very safe and reliable operation characteristics.

Still another object of the present invention is to provide such a loose product container which can be easily made starting from easily available elements and materials and which,moreover,is very competitive from a mere economic standpoint.

According to one aspect of the present invention,the above mentioned task and objects,as well as yet other objects,which will become more apparent hereinafter,are achieved by a container for transporting loose products in general and,in particular very toxic powder materials,characterized in that said container comprises a very high strength holding body provided with raising straps and a loading inlet and discharging outlet,inside said holding body there being arranged a bag provided with a loading sleeve and a discharging sleeve,said sleeves being adapted to be respectively arranged at said loading inlet and discharging outlet,said bag being further adapted to be tightly closed.

BRIEF DESCRIPTION OF THE DRAWINGS

Further characteristics and advantages of the present invention will become more apparent hereinafter from the following detailed disclosure of a preferred,though not exclusive embodiment,of a container for transporting loose products or materials,in particular very toxic powder materials,according to the invention,which is illustrated,by way of an indicative but not limitative example,in the figures of the accompanying drawings,in which:

figures 1 and 2 are respectively an exploded perspective view and a partially assembled perspective view illustrating the loose product container according to the present invention; and

figures 3 and 4 are respectively a partial cross sectional view and a cross-sectional view of the container.

DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference to the figures of the accompanying drawings,the container for transporting loose products or materials,in particular very toxic powder materials,according to the present invention comprises a very high strength holding body 1 which can be made of a fabric,non woven fabric and other like materials.

According to a preferred embodiment of the invention,the holding body has a parallelepipedal shape and is closed at the top thereof by a closure member 2 which is provided,at its middle region,with a loading inlet 3,the bottom of said holding body being provided with a discharging or unloading outlet 4.

The mentioned loading inlet and discharging outlet can be provided with a closure cord or any other tight closure known system 13.

At the corners of the top closure member 2 there are provided gripping straps or handles,indicated at the reference number 8,adapted to be gripped for raising and handling the container.

A main feature of the present invention is that inside said holding body 1 there is provided an inner bag 10,having perfect tightness characteristics,which comprises a loading sleeve 11 and a discharging or unloading sleeve 12,said sleeves being adapted to be respectively arranged at the loading inlet 3 and the unloading outlet 4.

More specifically,the sleeves 11 and 12 can be

sealed by thermosealing or glueing so as to provide a perfect tightness of the inner bag, in order to prevent the contained materials from leaking to the outside.

From the above disclosure it should be apparent that the invention fully achieves the intended task and objects.

In particular the fact is to be pointed out that a container for very toxic powder materials and the like has been provided which has a very high mechanical strength against stresses so as to safely prevent the contained materials from leaking to the outside.

While the invention has been disclosed and illustrated with reference to a preferred embodiment thereof, it should be apparent that the disclosed embodiment is susceptible to several modifications and variations all of which will come within the spirit and scope of the appended claims.

Claims

1- A container for transporting loose products or materials, in particular very toxic powder materials, characterized in that said container comprises a very high strength holding body (1) provided with raising straps and having a loading inlet (3) and a discharging outlet (4), inside said holding body there being arranged a bag (10) including a loading sleeve (11) and a discharging sleeve (12), said sleeves being adapted to be respectively arranged at said loading inlet and discharging outlet, and said bag being adapted to be tightly closed.

2- A container for transporting loose products according to the preceding claims characterized in that said holding body has a substantially parallelepipedal shape.

3- A container for transporting loose products according to the preceding claims, characterized in that it is provided with a top closure member (2) adapted to be tightly adapted to said holding body, said top closure member comprising said loading inlet.

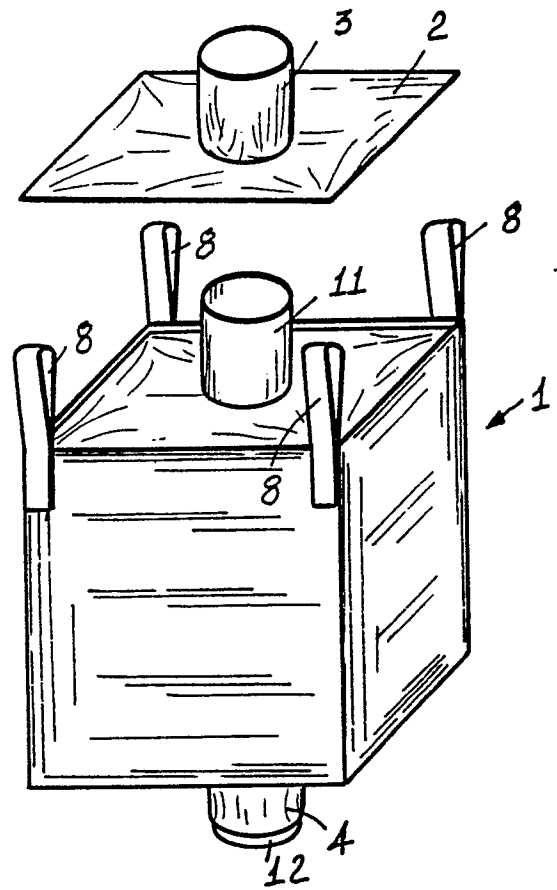
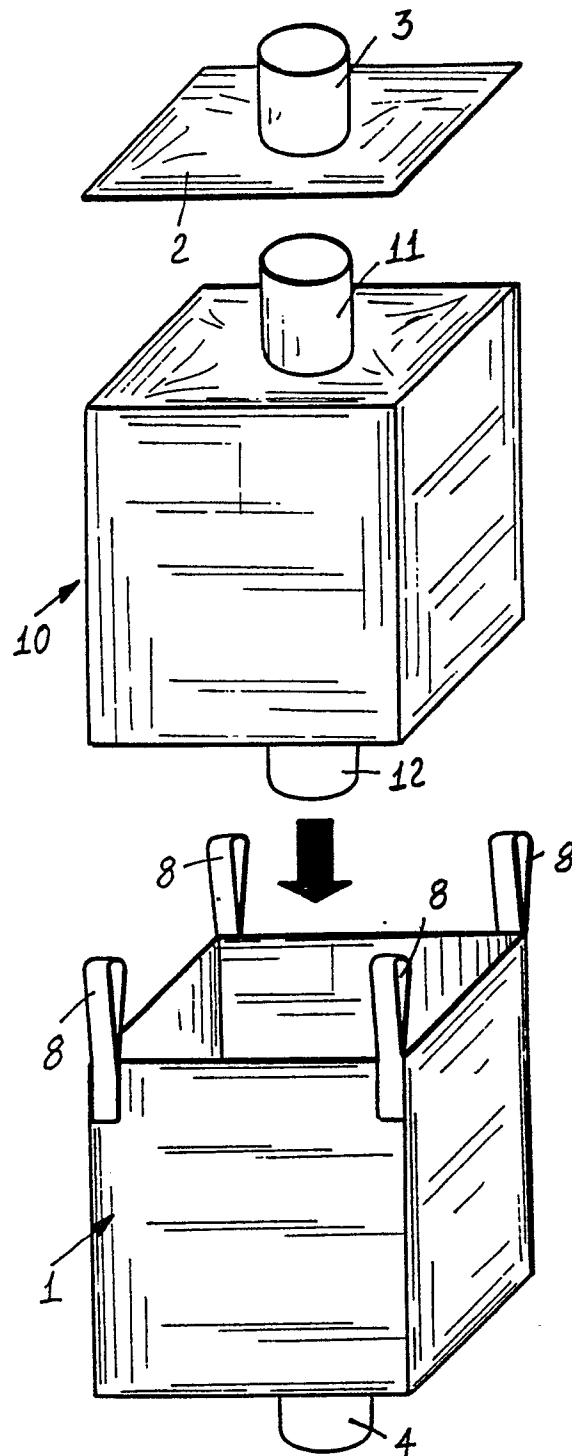
4- A container for transporting loose products, according to one or more of the preceding claims, characterized in that said holding body (1) is made of a very high strength fabric or non woven fabric or the like materials.

5- A container for transporting loose materials, according to one or more of the preceding claims, characterized in that said raising straps are provided at the corners of said holding body.

6- A container for transporting loose products according to one or more of the preceding claims, characterized in that said bag is made of a

material adapted to provide a perfect tightness, said loading and discharging sleeves being tightly closed by thermosealing or glueing.

7- A container for transporting loose products, in particular very toxic powder products, according to the preceding claims and substantially as broadly disclosed and illustrated for the intended task and objects.



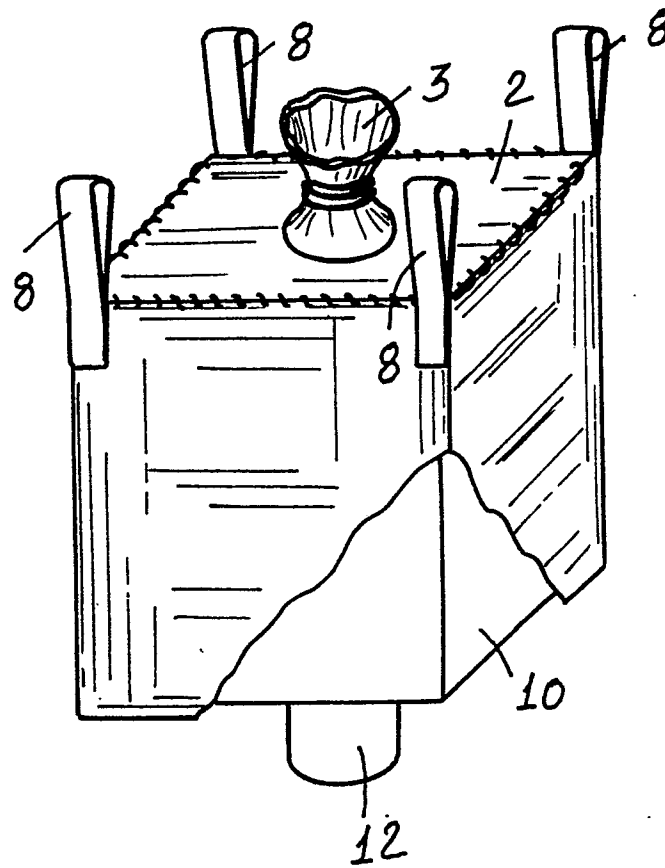


Fig. 3

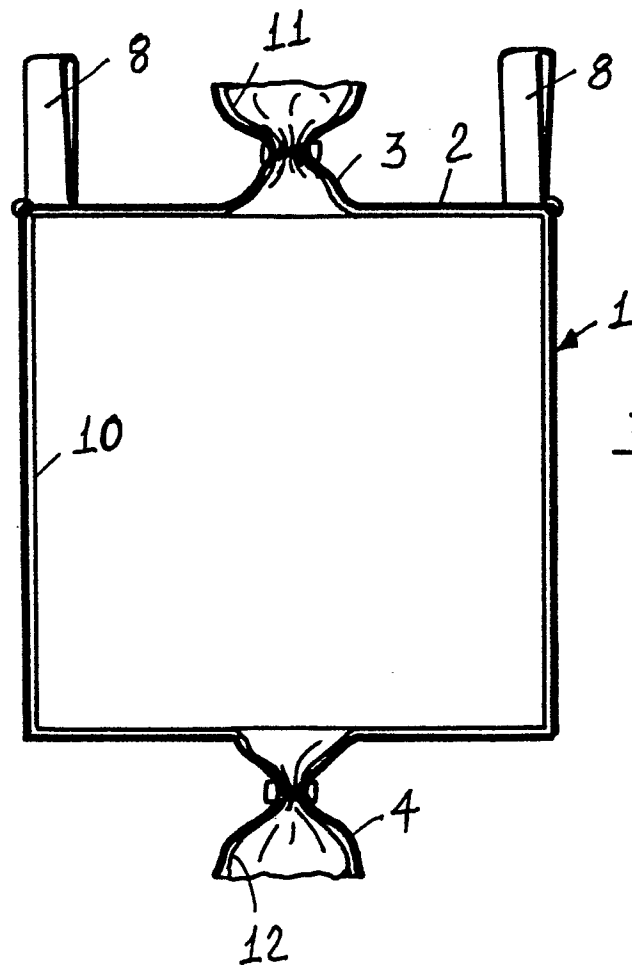


Fig. 4