Oct. 13, 1936. V. B. TREVELLYAN 2,057,122

PACKAGE FOR FIBROUS MATERIALS

Original Filed Sept. 8, 1933

Fig. 1.

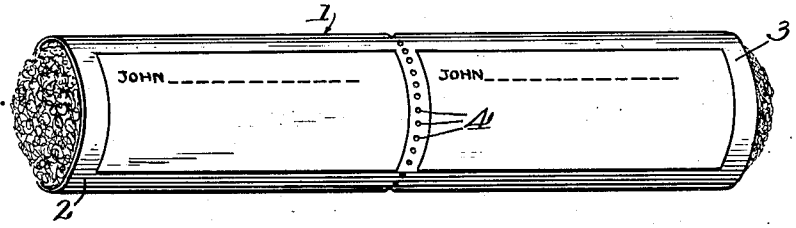


Fig. 2.

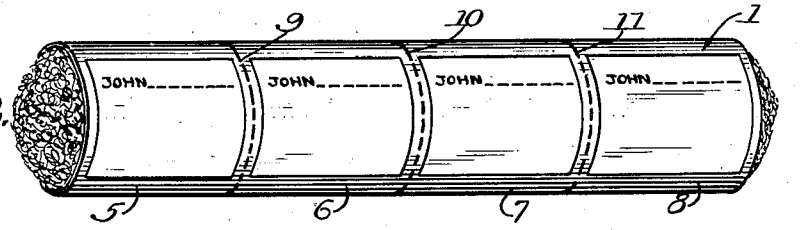


Fig. 3.

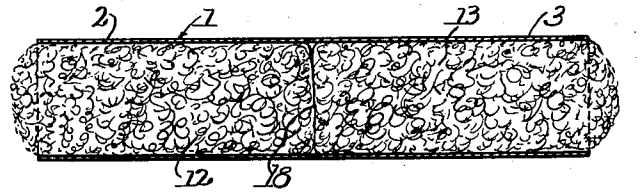
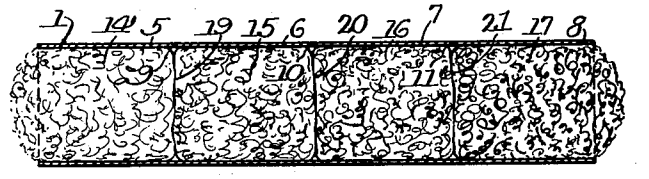


Fig. 4.



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2,057,122

PACKAGE FOR FIBROUS MATERIALS

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Original application September 8, 1933, Serial No. 688,582. Divided and this application March 5, 1934, Serial No. 714,025

6 Claims. (Cl. 206—56)

The present invention relates to the packaging or packing of fibrous materials, such as metal wool, and more particularly steel wool and the like, in containers or holders.

Among the objects of the invention is to provide a novel package for the packaging or packing of fibrous materials such as steel wool in containers or holders which are separably segmental in such a way that each given mass of fibrous material in each segment of the container or holder, is so located in its respective segment that when a segment is separated or severed from another, the mass or quantity of the fibrous material in that particular segment will remain therein free and independent of the fibrous material in the adjacent mass of the adjacent segment of the container or holder.

Another object of the invention is to provide a novel and convenient container for the fibrous material in accordance with the above mentioned object. A distinct and important advantage of the present package is that the entire mass of the material or steel wool need not be exposed to the atmosphere so as to become dusty or wet, but may be retained compressed in a smaller mass than were the entire package opened.

Other objects, advantages, capabilities and features are comprehended by the invention as will later appear, and as are inherently possessed by the invention.

This is a division of my co-pending application Serial No. 688,582, filed September 8, 1933, for Packaging of fibrous materials.

Referring to the drawing:

Fig. 1 is a perspective view of a package, the container or holder of which consists of two segments, each containing a separate given mass of steel wool;

Fig. 2 is a similar view showing the container or holder having four segments, each containing separate masses of steel wool;

Fig. 3 is a longitudinal section taken through the package shown in Fig. 1;

Fig. 4 is a longitudinal sectional view taken through the package shown in Fig. 2.

Referring more in detail to the drawing, and first to Figs. 1, 2, 3 and 4, the package produced by the means and process disclosed in my co-pending application above referred to, is shown in the form of a cylinder, although it is to be understood that other forms or shapes may be used. The package comprises a container 1 having a plurality of segments. In Figs. 1 and 3, the package, container or holder is shown as having two segments 2 and 3. Midway of the length of the container, the latter is provided with any suitable means such as perforations, roulettings, scorings or other like and similar means 4 whereby the container may be severed or separated along the series or lines of the perforations, roulettings, scorings and the like. Similarly the package shown in Figs. 2 and 4 comprises four segments 5, 6, 7 and 8, the segments being separated by lines of perforations, roulettings, scorings or the like 9, 10, and 11 as shown. It is to be understood that the particular number of the segments shown do not in any way limit the invention thereto, but any number of segments may be used as desired.

The perforations, roulettings, scorings and the like, constitute severance or weakening traces at which the segments may separate or part at the time when it is desired to sever or separate a segment from another of the package. The expression "weakening trace" is to be taken as generically comprehending perforations, indentations, roulettings, scorings, cuts, channels, grooves, and the like, which so condition, as by weakening, the package at the given loci, as to determine the place where the segments will part or separate.

In each of the segments is shown a body of fibrous material such as the bodies 12 and 13 as shown in Fig. 3, and the bodies 14, 15, 16 and 17, as shown in Fig. 4. It will be noted that each body of fibrous material occupies only its respective segment, and there is a definite parting surface 18 between the bodies 12 and 13, and 19, 20 and 21 between the bodies 14, 15, 16 and 17 as clearly shown in Figs. 3 and 4. It will be also noted that these parting surfaces are opposite the lines of perforations 4, 9, 10 and 11, so that when the segments are severed or separated the quantities or masses of the fibrous material in the segments will also part in the same locus or loci of parting for the holder or container segments. Each body of fibrous material may be of the same grade, or as shown in Fig. 4, these bodies may be of varying grades, or degrees of fineness or coarseness, so that the user may supply his needs for different grades from a single package.

The great convenience and economy had and obtained by the package or packages constructed in accordance with the present invention becomes apparent when considering that a portion or part of the whole package may be used at any one time without necessitating breaking open the whole package, thus avoiding the exposing of the entire contents of the whole package to deterioration influences or conditions

when, as is often the case, the total contents are not required for immediate use or other disposition.

Although the specific embodiments selected to illustrate the invention show a series of perforations or the like at the point of severance which is at the line of cleavage between adjacent units of fibrous material, the invention, however, is not limited thereto but comprehends any means for providing for severance at the point of cleavage, any such suitable means as may indicate, suggest, or invite severance at the desired point.

While I have herein disclosed a few illustrative embodiments of the invention, it is to be understood that the invention is not limited thereto, but comprehends other constructions, arrangements of parts, details, features and relations without departing from the spirit of the invention.

Having thus disclosed the invention, I claim:

1. A package comprising fibrous contents in a compressed condition, said contents consisting of predetermined separate units of fibrous material contacting each other in non-interlacing condition and being so arranged as to provide a line of cleavage between the units for readily separating said units at said line of cleavage, an inclosing wrapper for said contents and being under tension sufficient to maintain the contents in their compressed condition therein, and means for providing for severance of the wrapper at said line of cleavage between said units.

2. A package comprising fibrous contents in compressed condition and an inclosing wrapper therefor and for maintaining the contents compressed, said contents consisting of predetermined separate units contacting each other in non-interlacing condition and having a line of cleavage between them for ready separation of said units, and means for providing severance of said wrapper at said line of cleavage.

3. A package comprising fibrous contents in compressed condition and an inclosing wrapper severable in its nature and of such size as to maintain the contents compressed, said contents consisting of predetermined separate units contacting each other in non-interlacing condition and having a line of separation between them to provide for facile separation of said units, and means so arranged on said wrapper as to provide for a locus of separation of said units and said wrapper at said line of separation.

4. A package comprising fibrous contents in compressed condition, a wrapper therefor and for maintaining the contents in compressed condition, said contents consisting of individual masses of fibrous material contacting each other in non-interlacing condition and having a line of cleavage therebetween, means so arranged on said wrapper as to provide therebetween a locus of severance of said wrapper at said line of cleavage.

5. A package comprising a wrapper composed of a plurality of separable segments provided with a locus of severance therebetween, a given quantity of fibrous material of a given grade contained and held in compressed condition in each of said segments, said quantities of material being in contact with each other in non-interlacing condition and having a parting between said quantities to provide a line of cleavage therebetween and being in substantial alignment with the separating locus of the adjacent segments whereby upon separation of the segments the respective quantity of fibrous material contained therein remains in compressed condition in its respective segment.

6. A metal wool package comprising a wrapper having a severing locus so arranged as to divide the container into a plurality of severable segments, a given compressed and compacted mass of metal wool in each of said segments, each mass being held in compressed condition in and by its segment, said masses being in contact with each other in non-interlacing condition and having a line of cleavage between them, and said severing locus being located co-incident with said line of cleavage to provide for ready separation of said wrapper and of said masses in their respective wrapper segments thereat.

VERNON B. TREVELLYAN.