United States Patent [19]

Hardy, Sr.

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[54] **PACKAGE COMPRISING INTERLOCKED CARTON AND CONTENTS**

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[73] Assignee: **Beck Carton Corporation**, Milwaukee, Wis.

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[52] **U.S. Cl.**..... **206/60 R**, 206/DIG. 11, 229/9, 229/19

[51] **Int. Cl.**..... **B65d 85/00**

[58] **Field of Search**..... 206/56 R, 60 R, DIG. 11; 229/9–11, 19–20, 23 BT

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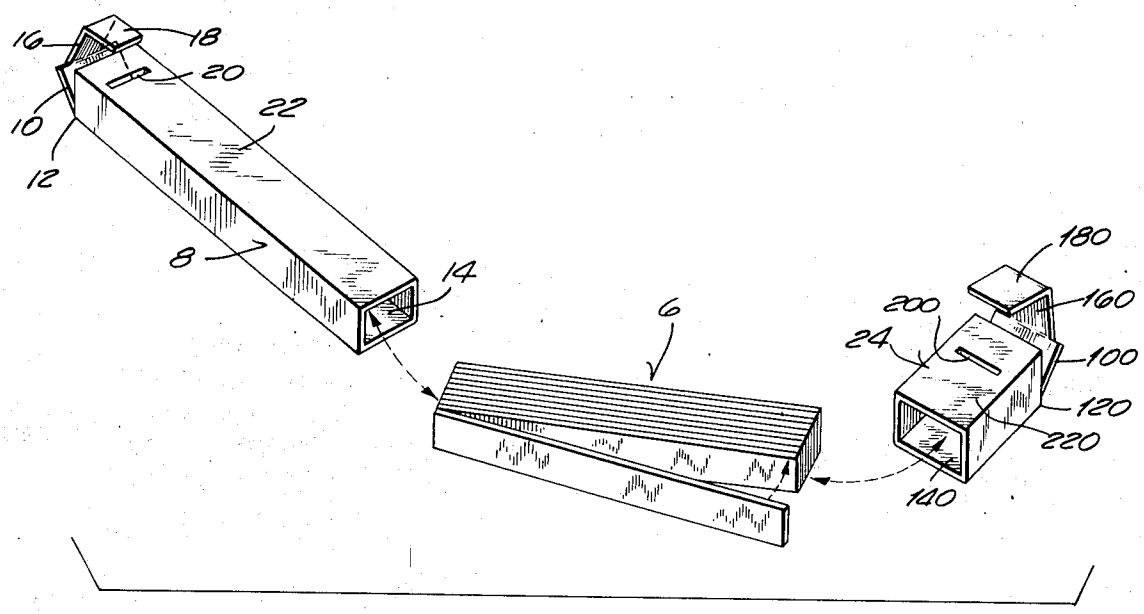
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[57] **ABSTRACT**

A carton comprising sleeves telescopically assembled upon carton contents has ends provided with flaps extending longitudinally along the exterior of the carton, tabs at the ends of the flaps being inserted through slots in the carton side wall and folded and pressed outwardly by the carton contents. Very weighty contents such as strips of metal can be packaged securely because of the interlock provided between the contents and the tabs.

2 Claims, 3 Drawing Figures



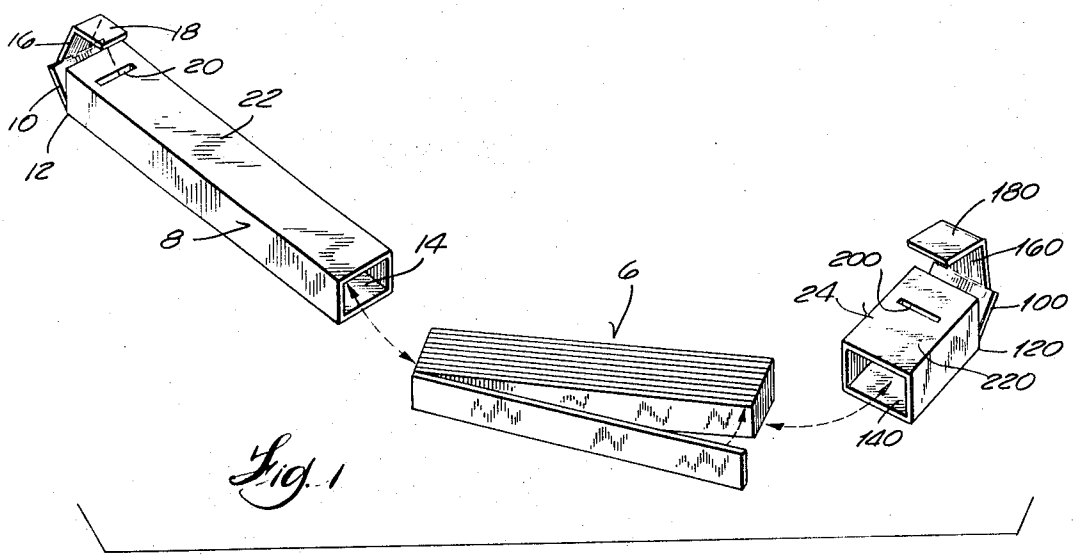


Fig. 1

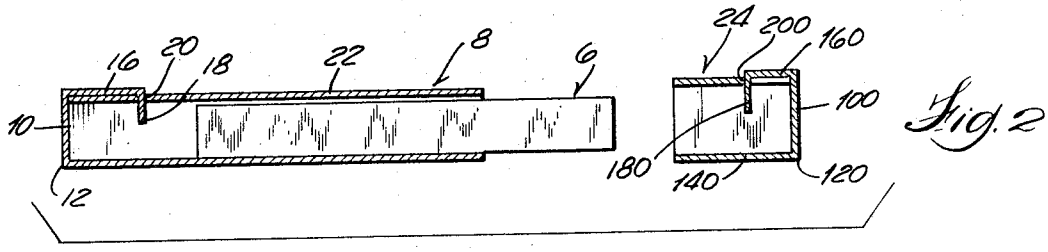


Fig. 2

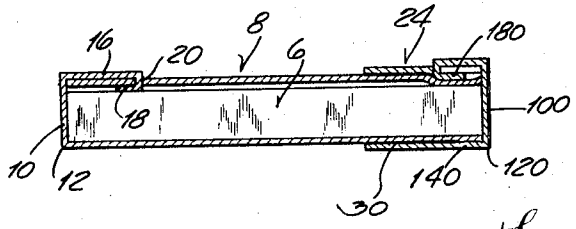


Fig. 3

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PACKAGE COMPRISING INTERLOCKED CARTON AND CONTENTS

BACKGROUND OF INVENTION

It has always been a problem to package strips of metal and other like weighty materials securely within a cardboard carton. The instant invention accomplishes this result so successfully that it is virtually impossible for the contents to break open the carton and escape from the package.

SUMMARY OF INVENTION

Except for dimensions the telescopic end portions of the carton are identical, each having a folded end closure wall with a flap holding it shut and anchored by a terminal tab projecting through a slot in the side of the carton and forced outwardly into pressure engagement with the carton when the contents are pushed into the carton for shipment. Some means, preferably an adhesive connection between the telescopically associated carton components, secures these to each other in positions in which the contents securely complete the interlocking anchorage of the locking tabs to the carton.

BRIEF DESCRIPTION OF DRAWINGS

FIG. 1 shows in mutually separated positions the contents and carton components to be assembled in a sealed package in accordance with the invention.

FIG. 2 is a view taken in longitudinal section showing the contents partially assembled in the carton components.

FIG. 3 is a view similar to FIG. 2 showing the completed package, the carton components being illustrated in section.

DETAILED DESCRIPTION

For illustrative purposes, I have shown metal strips **6** associated face-to-face to constitute the package contents, such strips being difficult to retain successfully in a package for shipment.

The carton component **8** is a sleeve of cardboard or the like into which the contents **6** fit snugly but slidably. In their ultimate positions, the strips comprising the contents **6** will extend to the folded end wall **10** which is integrally hinged at **12** to a back wall **14** of tube **8.** The end wall has a flap **16** terminally provided with a tab **18** receivable into a transverse slot **20** in the front wall **22** of the carton component **8.**

The carton component **24** may be substantially identical structurally with that shown at **8.** It is slightly

larger in cross section, being adapted to receive the carton component **8** telescopically. It may also be considerably shorter as shown in the drawing, although its length is largely immaterial. Like component **8,** the component **24** has an end wall **100** pivoted at **120** to the back wall **140** of component **24.** Likewise the end wall **100** has a flap **160** terminating in a tab **180** receivable into the slot **200.**

With carton components **8** and **24** preliminarily completed as shown in FIG. **2,** the respective flaps will lie flat on the respective front walls **22** and **220** and tabs **18** and **180** will depend into the interior of the respective components where they will lie in the path of the contents **6.** When relative movement between the components and the contents forces the contents to the respective end walls **10** and **100** as shown in FIG. **3,** the relative advance of the contents will force the tabs **18** and **180** toward opposite ends of the resulting package and they will be held frictionally against the respective top walls of components **8** and **24.** The result is a package which cannot accidentally become opened notwithstanding the great weight of the contents, here assumed to be strips of metal.

Any desired means may be employed to secure the components **8** and **24** in their mutually telescoped relationship. This may be done by external banding or by adhesive **30,** the latter being illustrated in FIG. **3** for purposes of illustration of a means for connecting together the two telescopically related components.

I claim:

1. A package comprising elongated contents and a pair of carton components telescopically associated with each other and fitting said contents, each such component having an end wall, a back wall and a front wall, the end wall being pivoted to the back wall and extending across the contents and having a flap extending along the front wall, and a tab at the end of the flap extending through a slot with which the front wall is provided, said tab being engaged by said contents and extending toward the respective end wall between the contents and the front wall and held by the contents in pressure engagement with the front wall, together with means holding the components together in telescopic relationship with their respective end walls substantially engaged with the contents.

2. A package according to claim **1** in which the contents comprise elongated metal strips in face contact with each other.

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