

US007108823B2

(12) United States Patent Kaufman

Kauiman

(10) Patent No.: US 7,108,823 B2 (45) Date of Patent: Sep. 19, 2006

(54)	STAGED COMPRESSION MOLDING
	PROCESS

- (75) Inventor: Brett Kaufman, Newburgh, IN (US)
- (73) Assignee: Berry Plastics Corporation,

Evansville, IN (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

- (21) Appl. No.: 10/947,749
- (22) Filed: Sep. 23, 2004
- (65) Prior Publication Data

US 2005/0067735 A1 Mar. 31, 2005

Related U.S. Application Data

- (60) Provisional application No. 60/505,827, filed on Sep. 25, 2003, provisional application No. 60/534,292, filed on Jan. 5, 2004.
- (51) **Int. Cl. B29C 43/14** (2006.01)
- (52) **U.S. Cl.** **264/294**; 264/320; 264/325

(56) References Cited

U.S. PATENT DOCUMENTS

4,343,754 A 8/1982 Wilde et al.

4,497,765	A	2/1985	Wilde et al.
4,635,460	A *	1/1987	Paunov et al 72/259
4,664,280	A	5/1987	Whitney et al.
4,674,643	A	6/1987	Wilde et al.
4,797,082	A *	1/1989	Hughes 425/356
4,921,646	A	5/1990	Stewart
5,149,479	A *	9/1992	Nakajima 264/163
5,642,824	A	7/1997	Hess et al.
5,650,113	A	7/1997	Gregory et al.
5,659,518	A	8/1997	McLaury
5,807,592	A	9/1998	Alieri
6,294,121	В1	9/2001	Hara et al.
6,321,923	B1	11/2001	Wood
6,471,902	B1 *	10/2002	Snyder 264/294
2002/0109267	A1*	8/2002	Herbst 264/328.7
2003/0116879	A1	6/2003	Mueller et al.
2004/0169307	A1	9/2004	Mueller et al.

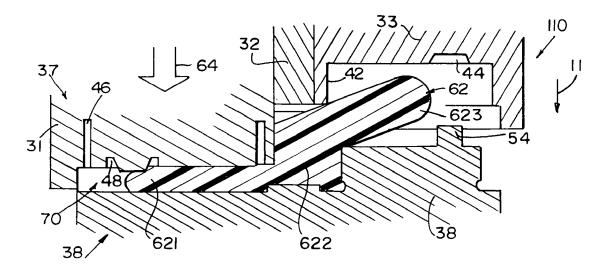
* cited by examiner

Primary Examiner—Jill L. Heitbrink (74) Attorney, Agent, or Firm—Barnes & Thornburg LLP

(57) ABSTRACT

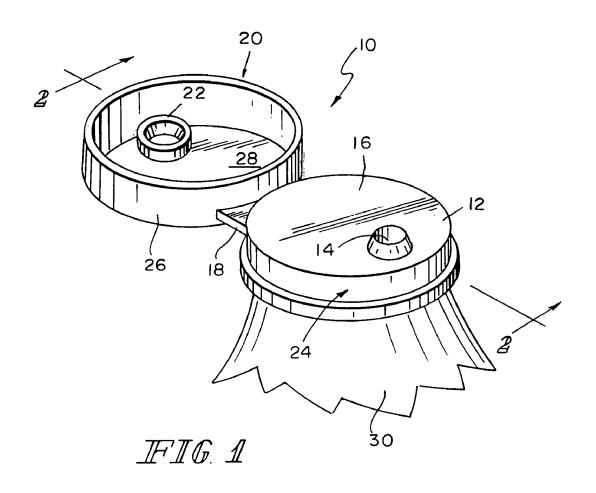
A process of molding a container closure comprises depositing a gob of thermoplastics material in a mold cavity and then moving mold plates in an upper mold portion relative to an opposing lower mold portion to form the container closure in the mold cavity.

5 Claims, 6 Drawing Sheets





Sep. 19, 2006



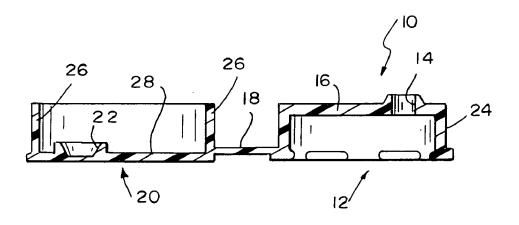
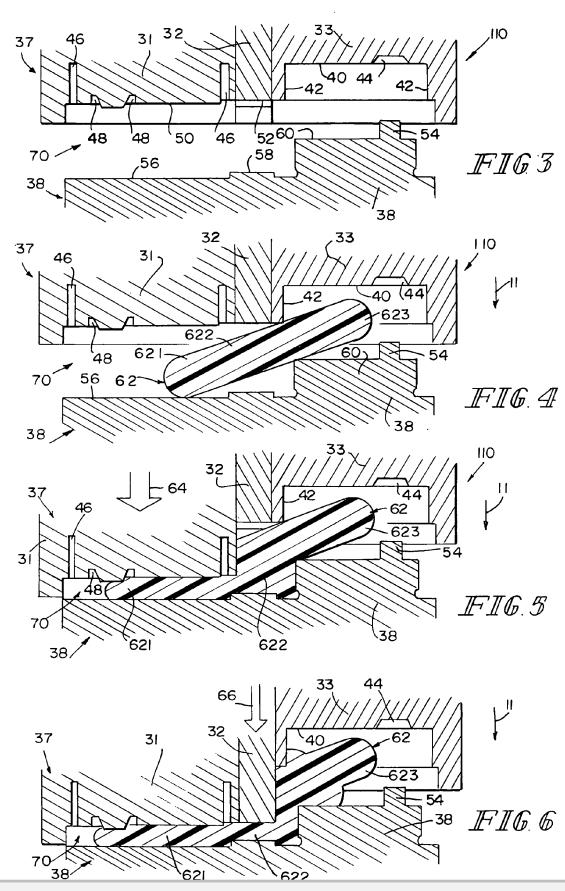


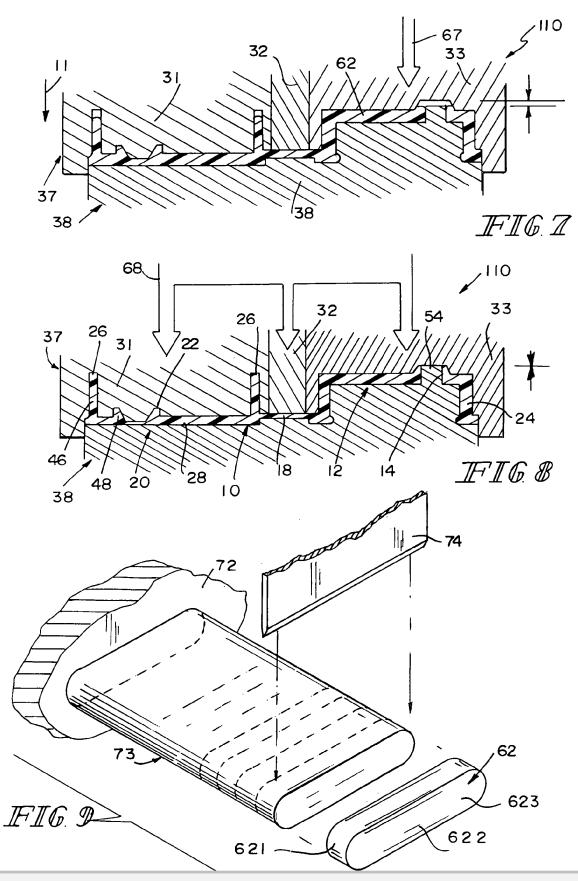
FIG. 2

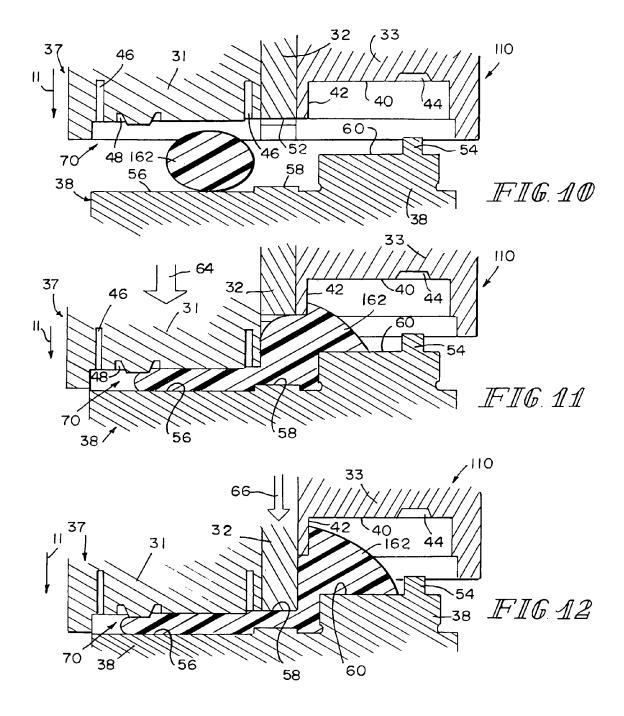


Sep. 19, 2006











DOCKET A L A R M

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

