1 Publication number:

0 337 500

12

EUROPEAN PATENT APPLICATION

Application number: 89109413.8

2 Date of filing: 30.09.85

(s) Int. Cl.4: **B** 65 **D** 1/26

B 65 D 21/02

30 Priority: 03.10.84 US 657224 20.05.85 US 736428

43 Date of publication of application: 18.10.89 Bulletin 89/42

Designated Contracting States:
 BE DE FR GB IT SE

60 Publication number of the earlier application in accordance with Art. 76 EPC: 0 196 327

Bate of deferred publication of search report: 23.11.89 Bulletin 89/47

(7) Applicant: NATIONAL CAN CORPORATION 8101 West Higgins Road Chicago Illinois 60631 (US) (72) Inventor: Pulciani, Sam C. 4633 North Ozark Avenue Oak Forest, IL 60452 (US)

> Mikas, Raymond 8137 South Sawyer Chicago, IL 60652 (US)

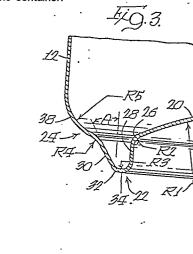
> Wyleta, Robert M. 5525 West 83 Place Burbank, IL 60459 (US)

Szczerba, Robert M. 800 Willy Avenue Algonquin, IL 60102 (US)

74 Representative: Strehl, Schübel-Hopf, Groening, Schulz Maximilianstrasse 54 Postfach 22 14 55 D-8000 München 22 (DE)

(54) Container.

57) The invention relates to a drawn and ironed beer and beverage container (10) including a generally cylindrical side wall (12) having an inwardly-tapered reduced neck at one end with a reduced diameter end connected by a double seam to an open end of said reduced diameter neck, said double seam having an inner generally flat wall that extends generally parallel to the axis of said container with an upper arcuate exposed portion above said inner flat wall and an integral bottom wall characterized by said bottom wall including a fist lower convex annular arcuate portion (38) at the end of said cylindrical side wall (12), a concave annular second arcuate portion integral with a lower end of said first lower convex annular arcuate portion (38) and a generally U-shaped annular third portion (22), said second arcuate portion adapted to engage said arcuate exposed portion of double seam when stacking a lower portion of a container upon an upper portion of another container, said U-shaped annular third portion (22) having an outer annular flat wall (30) tapered inwardly and an inner substantially vertical flat wall (28) interconnected by a lower arcuate segment (32) that defines a reduced diameter lower annular support (34) for said container; and an inwardly-domed central panel (20) integral with said substantially vertical flat wall (28). The container can be formed using reduced thickness stock material without increasing the diameter of the disc-shaped stock material. The new container has excellent column strength, buckle strength and resistance to harsh handling, while at the same time incorporates a nesting feature for allowing the bottom profile wall to nest with the end attached to the reduced neck portion of the container.





EUROPEAN SEARCH REPORT

EP 89 10 9413

	DOCUMENTS CONSTR	TOPO TO BE SELECT		EP 89 10 94	
	DOCUMENTS CONSIDI				
Category	Citation of document with indic of relevant passa	ation, where appropriate, ges	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)	
A	WO-A-8 302 577 (META * Pages 22-23; figure	L BOX) s 11-12 *	1-5	B 65 D 1/26	
A	FR-A-2 099 514 (CROW) * Page 5, line 37 - p. figures 1-3 *	N CORK & SEAL CO.) age 7, line 3;	1,3,5		
				TECHNICAL FIELDS SEARCHED (Int. Cl.4)	
				B 65 D	
	The present search report has been	drawn up for all claims			
Place of search Date of completion of the		Date of completion of the search		Examiner	
THE HAGUE		13-10-1989	VANT	VANTOMME M.A.	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		D: document cited L: document cited	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document		

EPO FORM 1503 03.82 (P0401)