

①2 **EUROPEAN PATENT APPLICATION**

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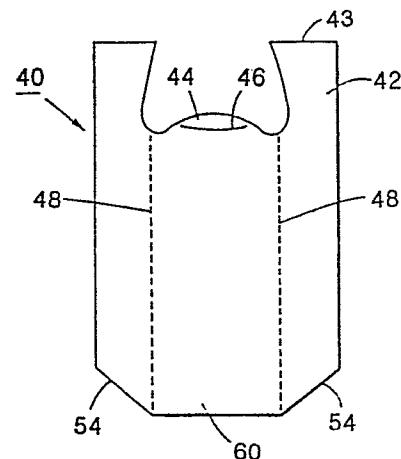
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⑤4 **A thermoplastic bag, method and system for its manufacture.**

⑤7 A bag structure of a thermoplastic film material including a method and system for its manufacture, said bag structure comprising front and rear bag walls connected by side walls and having an open mouth top portion, said open mouth portion being characterized by having handles (42) located at opposite end regions thereof, said handles being of two films as a result of being integral extensions of said front, rear and gusseted side walls; said bag having a bottom wall (54-60) planarily extensible so as to form a rectangle with at least no substantial excess film outside of the bulk volumetric capacity of said bottom region of said bag. The bag structure can also be made without handles.



**FIG. 5**



DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	FR-A-1 429 398 (CHILLET) * Whole document *	1, 3, 6, 15-17	B 65 D 30/10 B 65 D 33/06 B 31 B 37/00
Y		2	
D, Y	--- US-A-3 119 548 (COOK et al.) * Whole document *	2	
A		5, 6, 15 , 16, 24	
D, A	--- US-A-4 165 832 (KUKLIES) * Figure 4 *	7, 8, 14 , 15	
A	--- US-A-3 254 828 (LERNER) * Figures 4, 7; column 5, lines 52-63 *	9, 13, 15	B 65 D B 31 B
X	--- EP-A-0 021 463 (WAVIN)  * Whole document *	11, 15- 17, 19- 22, 28, 31	
	--- FR-A-1 455 621 (WINDMÖLLER)  -----		
The present search report has been drawn up for all claims			

Place of search  
THE HAGUE

Date of completion of the search  
10-02-1987

Examiner  
LORENZ

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  
C non-written disclosure  
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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  
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