

Title (en)
Method of opening flattened bags

Title (de)
Verfahren zum Öffnen von flachgelegten Beuteln

Title (fr)
Procédé pour l'ouverture de sachets repliés à plat

Publication
EP 0844179 A1 19980527 (EN)

Application
EP 96308531 A 19961126

Priority
EP 96308531 A 19961126

Abstract (en)
The invention provides a method of opening flattened bags (4'). An open topped container (3) is carried at the top of a flanged member (9) carried by a carriage (6) which moved by an endless chain (2) at a constant speed along a path in a conveying direction (A). The open topped container is in two halves (24,25) which are separated at a bag opening station to allow a flattened bag (4') moving faster than the endless chain (2) to enter the container (3) and then slow down to the same speed as the endless chain (2). The two halves (24,25) then close thereby trapping the bottom seal (63) of the bag between the bottom parts (24d,25d) of the two halves (24,25). Plenum chambers (47,48) in the base of the container (3) are connected via respective vacuum tubes (57,59) to bellows connectors (58,60) which, as the container (3) and bag (4') travel on, run adjacent a vacuum box to effect evacuation of the plenum chambers (47,48) and hence the chamber surrounding the bottom walls (24d,25d), the side walls (24a, to 24c, 24a to 25c), and two stationary members (61,62) under which the container (3) is caused to pass to cause the flattened bag (4') to open and conform closely to the interior of the container (3). <IMAGE>

IPC 1-7
B65B 43/30

IPC 8 full level
B65B 43/16 (2006.01); **B65B 43/30** (2006.01)

CPC (source: EP)
B65B 43/16 (2013.01); **B65B 43/30** (2013.01)

Citation (applicant)
• GB 1003768 A 19650908 - MARIUS BERGHGRACHT
• WO 8803892 A1 19880602 - EDIFO INDUSTRIKONSULT AB [SE]
• US 5279095 A 19940118 - MUELLER WERNER [CH]

Citation (search report)
• [A] US 2281516 A 19420428 - ROYAL THOMAS M
• [A] US 2932142 A 19600412 - WILLY SINDZINSKI
• [A] DE 4435294 A1 19950622 - SIG SCHWEIZ INDUSTRIEGES [CH]

Cited by
DE19842362A1; DE19842362C2; AU752071B2; US6430901B1; US10625890B2; WO0015501A1; WO2016046302A1

Designated contracting state (EPC)
DE

DOCDB simple family (publication)
EP 0844179 A1 19980527; AU 5063998 A 19980622; CA 2272698 A1 19980604; EP 0944526 A1 19990929; GB 2335408 A 19990922; GB 2335408 B 20000719; GB 9912353 D0 19990728; WO 9823486 A1 19980604

DOCDB simple family (application)
EP 96308531 A 19961126; AU 5063998 A 19971126; CA 2272698 A 19971126; EP 97913343 A 19971126; GB 9703240 W 19971126; GB 9912353 A 19971126