

Title (en)
Carriers of multiples of flanged containers.

Title (de)
Flanschbehälterträger.

Title (fr)
Supports de groupage de récipients à rebord.

Publication
EP 0636096 A1 19950201 (EN)

Application
EP 93911568 A 19930330

Priority
• US 9303001 W 19930330
• US 87068492 A 19920417

Abstract (en)
[origin: WO9321083A1] A carrier (72) formed of sheet material (70) or fiber board for ringing beverage containers (60) having upstanding walls (122) formed to engage a flange or chime (124) on a beverage container (60). The walls (122) extend circumferentially around the container engaging apertures (96) in the carrier (72). The carrier (72) may have concentric strengthening members (126, 128), such as scores or corrugations surrounding the container engaging apertures (96). The carriers (72) may be installed on arrays (62) of beverage containers (60) by automated or manually driven ringing machines (50). These machines (50) index the carriers (72) to locations which correspond to the location of an array (62) of containers (60) received in the machines (50). The machines (50) have mechanisms (54) to utilize preformed webs (70) of joined carriers (72). The ringing machines (50) position the carriers over an array (62) of containers (60) and force the carriers (72) into ringing engagement with the array (62). The carrier (72) may be compatible with modern disposal methods including incineration and biodegradation.

IPC 1-7
B65D 75/00; **B65B 21/00**; **B65B 57/12**; **B65B 67/00**

IPC 8 full level
B65D 71/12 (2006.01); **B65B 17/02** (2006.01); **B65D 71/50** (2006.01)

CPC (source: EP)
B65B 17/025 (2013.01); **B65D 71/50** (2013.01); **B65D 71/504** (2013.01); **B65D 2565/385** (2013.01); **Y02W 90/10** (2015.05)

Cited by
USD1000290S; US11511895B1; USD982457S; US11958673B2; US11261013B2; USD946418S; US11485555B2; USD984279S; USD946419S; USD955890S; USD956573S; USD956574S; USD956575S; USD984280S; US11027904B2; USD946420S; US11401094B2; USD984266S; US11840387B2; US11014727B2; US11472618B2; US11180301B2; US11286094B2; US11623803B2; USD984281S; US11919692B2; USD946421S; USD946417S; USD946416S; USD955889S; US11383907B2; USD983049S; US11628994B2; USD984282S; US11655088B2; US11753226B2; US11027905B2; US11279540B2; USD974923S; US11708202B2; USD996227S

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IE LI NL

DOCDB simple family (publication)
WO 9321083 A1 19931028; AU 4044993 A 19931118; BR 9306228 A 19990727; CA 2133827 A1 19931028; EP 0636096 A1 19950201; EP 0636096 A4 19960821; JP H07505598 A 19950622

DOCDB simple family (application)
US 9303001 W 19930330; AU 4044993 A 19930330; BR 9306228 A 19930330; CA 2133827 A 19930330; EP 93911568 A 19930330; JP 51837793 A 19930330