

Title (en)
Conveying method and apparatus

Title (de)
Verfahren und Vorrichtung zum Fördern

Title (fr)
Procédé et installation de transport

Publication
EP 0967150 B1 20031203 (EN)

Application
EP 99304923 A 19990623

Priority
• US 10278298 A 19980623
• US 19963098 A 19981125

Abstract (en)
[origin: EP0967150A1] A machine includes a single power source 18 for asynchronously operating dual indexing conveyors 12 and 14. The single power source 18 is part of a drive system 16 for the conveyors 12 and 14 and may be a reversible servo unit 18 operatively connected to gear sets 80 and 82 and one-way clutches 38 to drive the conveyors 12 and 14. Alternatively, the power source may be a uni-directional rotating driver with a linkage to reciprocate a rack operatively connected to gear sets with one-way clutches. Each of the conveyors 12 and 14 advances liquid-filled open-topped containers C and is configured to engage the containers C releasably. The drive system 16 schedules conveyor motion according to a predetermined motion profile. The motion profile comprises sequential indexing periods, each indexing period comprising a move portion and a dwell portion. Each move portion comprises a generally discontinuous acceleration profile that includes generally instantaneous acceleration changes of a finite value. <IMAGE>

IPC 1-7
B65B 43/52; **B65B 65/02**

IPC 8 full level
B65G 23/00 (2006.01); **B65B 43/52** (2006.01); **B65B 65/02** (2006.01); **B65G 23/26** (2006.01); **B65G 23/30** (2006.01)

CPC (source: EP)
B65B 43/52 (2013.01); **B65B 65/02** (2013.01)

Cited by
CN116788870A; US9878813B2; WO2016012160A1

Designated contracting state (EPC)
DE GB IT SE

DOCDB simple family (publication)
EP 0967150 A1 19991229; **EP 0967150 B1 20031203**; DE 69913250 D1 20040115; DE 69913250 T2 20040909; EP 1378452 A1 20040107; JP 2000025925 A 20000125

DOCDB simple family (application)
EP 99304923 A 19990623; DE 69913250 T 19990623; EP 03019708 A 19990623; JP 17653499 A 19990623