

Title (en)  
Conveying method and apparatus

Title (de)  
Verfahren und Vorrichtung zur Förderung

Title (fr)  
Procédé et appareil de convoyage

Publication  
**EP 1378452 A1 20040107 (EN)**

Application  
**EP 03019708 A 19990623**

Priority  

- EP 99304923 A 19990623
- US 10278298 A 19980623
- US 19963098 A 19981125

Abstract (en)  
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**

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CPC (source: EP)  
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Citation (applicant)  

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