

Title (en)  
Cup feeder

Title (de)  
Vorschubvorrichtung für Näpfe

Title (fr)  
Dispositif pour avancer des godets

Publication  
**EP 1575006 A1 20050914 (EN)**

Application  
**EP 04017623 A 20040726**

Priority  
IT VR20040030 A 20040305

Abstract (en)  
A cup feeder (1), comprising a supporting element (2) for a plurality of substantially cylindrical cam elements (3) that are arranged, during use, below a column (10) of cups stacked along a stacking axis (102), the cam elements being rotatable on command about their own generating axis, which is substantially parallel to the stacking axis, and having a helical lateral profile (4) for engaging the upper rim (5a) of the cup (5) arranged at the bottom of the column (10) of stacked cups, the feeder being provided with actuation means (6) for the simultaneous rotation of the cam elements (3) about their respective generating axis and with means for the simultaneous approach/spacing of the cam elements with respect to the stacking axis, and being characterized in that the spacing/approach means comprise a rotating supporting pivot (7) for each one of the cam elements (3) that can be moved angularly on command about an angular displacement axis (8), in order to move closer/away a respective cam element with respect to the stacking axis, the actuation means for simultaneous rotation comprising motor means (9) adapted to turn simultaneously first driving wheels (9a) about each angular displacement axis and means for kinematic connection between the first driving wheels (9a) and the respective cam element (3). <IMAGE>

IPC 1-7  
**G07F 13/10**; B65G 59/10

IPC 8 full level  
**B65G 59/10** (2006.01); **G07F 13/10** (2006.01)

CPC (source: EP)  
**G07F 13/10** (2013.01)

Citation (search report)  
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• [X] US 5518149 A 19960521 - LOTSPEICH JOSEPH A [US], et al  
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• [XA] US 4418837 A 19831206 - KONTZ ROBERT F [US]

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