

Title (en)

Conveying apparatus for bottle processing installation

Title (de)

Vortisch an Gefäßbehandlungsmaschinen

Title (fr)

Table de manipulation pour installation d'embouteillage

Publication

**EP 0947462 A3 20000412 (DE)**

Application

**EP 99104366 A 19990304**

Priority

DE 19814625 A 19980401

Abstract (en)

[origin: EP0947462A2] Individual feeder and discharge stars and processing units have drive mechanisms which are covered by a support plate. Several processing machines are fitted together into blocks. The rotational axle (13) of a rinser (11) is positioned on a first line (12) which is spaced apart from a second line (14) on which the rotary axles of the feeder and discharge stars (15,16) of the rinser and filler machine (17,18) are positioned. The axles (20) of the discharge star (21) of the filler machine are positioned on a further line (19) at an angle to the second line. The axles of a further capping machine (23) and the axle of a discharge star (25) of the crown-capper (22) and of the further capping machine (24) are positioned on a line (23) parallel with the third line (19).

IPC 1-7

**B67C 7/00**; **B67C 3/22**

IPC 8 full level

**B67C 3/22** (2006.01); **B67C 7/00** (2006.01)

CPC (source: EP US)

**B67C 3/22** (2013.01 - EP US); **B67C 7/002** (2013.01 - EP US)

Citation (search report)

- [A] US 2597791 A 19520520 - ARTHUR GRAHAM-ENOCK
- [A] GB 2067530 A 19810730 - PONT A MOUSSON
- [A] US 2822911 A 19580211 - KUMMER THEODORE H, et al
- [A] DE 3722495 A1 19890119 - HOLSTEIN & KAPPERT MASCHF [DE]
- [A] DE 2636515 A1 19780216 - WINTERWERB STRENG CO GMBH
- [A] US 2776047 A 19570101 - HOWARD STANLEY R
- [A] DE 4114889 A1 19921112 - KRONSEDER MASCHF KRONES [DE]
- [A] US 5713403 A 19980203 - CLUESSERATH LUDWIG [DE], et al
- [PX] DE 29805957 U1 19980716 - KHS MASCH & ANLAGENBAU AG [DE]
- [L] DE 29716505 U1 19980806 - KHS MASCH & ANLAGENBAU AG [DE]
- [L] EP 0901974 A2 19990317 - KHS MASCH & ANLAGENBAU AG [DE]

Cited by

CN112624021A; CN113716510A; WO2017186362A1

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