

Title (en)

Method and apparatus for aligning crop articles for grading

Title (de)

Verfahren und Vorrichtung zum Ausrichten von Erntegut zum Sortieren

Title (fr)

Procédé et dispositif pour aligner des produits de la récolte pour le tri

Publication

**EP 1577024 A1 20050921 (EN)**

Application

**EP 05251560 A 20050315**

Priority

GB 0405801 A 20040316

Abstract (en)

Apparatus and a method for inspecting and sorting crop articles (14) such as fruit and vegetables comprising at least one drivable roller conveyor (16) onto which crop articles are presented, an inspection device (28) under which the articles (14) conveyed which inspects and scans the articles (14) as they pass, a control system for analysing and processing the data obtained and adapted, article removal devices which may be actuated to displace/remove articles from the roller conveyor in response to the data, and having at least one discharge location wherein said apparatus is also provided with crop article location means (26) which act on said crop articles (14) to facilitate the positioning of same prior to inspection.

IPC 1-7

**B07C 5/02**; **B07C 5/342**

IPC 8 full level

**B07C 5/02** (2006.01); **B07C 5/342** (2006.01)

CPC (source: EP)

**B07C 5/02** (2013.01); **B07C 5/342** (2013.01)

Citation (search report)

- [X] EP 0812788 A2 19971217 - ISHII KOGYO CO LTD [JP]
- [X] EP 0436244 A1 19910710 - AWETA BV [NL]
- [A] US 2001032807 A1 20011025 - POWELL HARRY C [US]
- [A] US 5626238 A 19970506 - BLANC PHILIPPE [FR]
- [A] EP 1240951 A1 20020918 - NIPPON KOKAN KK [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 497 (M - 1476) 8 September 1993 (1993-09-08)

Cited by

CN109078862A; CN111167746A; ITMN20120010A1; CN110201908A; WO2014076719A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1577024 A1 20050921**; GB 0405801 D0 20040421

DOCDB simple family (application)

**EP 05251560 A 20050315**; GB 0405801 A 20040316