

Title (en)  
BIDIRECTIONAL MANIPULATOR DEVICE FOR MATERIAL CONVEYANCE AND FEEDING AND METHOD THEREOFDEVICE

Title (de)  
BIDIREKTIONALE MANIPULATORVORRICHTUNG ZUR MATERIALFÖRDERUNG UND -ZUFÜHRUNG SOWIE VERFAHREN DAVON

Title (fr)  
DISPOSITIF DE MANIPULATION BIDIRECTIONNELLE POUR LE TRANSPORT ET L'ALIMENTATION DE MATÉRIAU ET SON PROCÉDÉ

Publication  
**EP 3418206 A4 20190918 (EN)**

Application  
**EP 17885842 A 20171024**

Priority

- CN 201611252427 A 20161230
- CN 2017107401 W 20171024

Abstract (en)  
[origin: EP3418206A1] The present disclosure provides an opposite conveying manipulator feeding method which is characterized in that two conveying devices are provided; a plurality of material troughs are formed in the conveying devices; the two conveying devices receive weighed noodles from the two ends of an opposite conveying manipulator feeding device correspondingly; the noodles enter into the material troughs; noodle alignment and arrangement devices are arranged on the two sides of the material troughs; noodle alignment and arrangement is carried out on the end faces of the noodles through the swinging of baffles; vibration and material arrangement devices are arranged at the lower parts of the material troughs; gaps among the noodles or inclination of the noodles is eliminated through vibration; and the noodles are correspondingly and oppositely conveyed to the middle of the opposite conveying manipulator feeding device through the material troughs. The opposite conveying manipulator feeding method has the advantages that the structure is compact and simple; the input cost is low; the occupied space is small; two manipulators work alternately, so that the working efficiency is improved substantially; working is reliable; and the probability of causing noodle disorder in the conveying process is low.

IPC 8 full level  
**B65B 19/34** (2006.01); **B65B 35/30** (2006.01); **B65B 35/36** (2006.01); **B65B 35/40** (2006.01); **B65B 35/44** (2006.01)

CPC (source: CN EP)  
**B65B 19/34** (2013.01 - CN EP); **B65B 35/30** (2013.01 - CN EP); **B65B 35/36** (2013.01 - CN EP); **B65B 35/40** (2013.01 - CN EP); **B65B 35/44** (2013.01 - EP)

Citation (search report)

- [A] CN 106005565 A 20161012 - QINGDAO HAIKEJIA ELECTRONCE EQUIPMENT MFG CO LTD
- [A] CN 201825249 U 20110511 - GUOWEN GENG
- See references of WO 2018121017A1

Cited by  
CN111891457A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3418206 A1 20181226**; **EP 3418206 A4 20190918**; **EP 3418206 B1 20200909**; CN 108216723 A 20180629; CN 108216723 B 20230718; WO 2018121017 A1 20180705

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