

Title (en)
BOBBIN CONVEYING SYSTEM AND BOBBIN CONVEYING METHOD

Title (de)
SPULENFÖRDERSYSTEM UND SPULENFÖRDERVERFAHREN

Title (fr)
SYSTÈME DE TRANSPORT DE BOBINES ET PROCÉDÉ DE TRANSPORT DE BOBINES

Publication
EP 4296208 A1 20231227 (EN)

Application
EP 23179484 A 20230615

Priority
JP 2022100738 A 20220622

Abstract (en)
The number of rows of stocker pegs 26 provided by a stocker 20 is one greater than the number of rows of cart pegs 13 provided by a traveling creel cart 10. In a state in which one row of the stocker pegs 26 is bobbin-less and empty bobbins 6 are hung on all remaining rows of the stocker pegs 26, a first process and a second process are alternately performed under the control of a transfer control computer 40 to exchange empty bobbins 6 in the stocker 20 with full bobbins 5 in the traveling creel cart 10. In the first process, full bobbins 5 hung on one row of cart pegs 13 are moved to one row of stocker pegs 26, which are bobbin-less. In the second process, empty bobbins 6 hung on one row of stocker pegs 26 are moved to one row of cart pegs 13 where the full bobbins 5 has been removed in the first process. The traveling creel cart 10 conveys full bobbins 5 to the stocker 20 and replaces them with empty bobbins 6 in the stocker 20, and then conveys the empty bobbins 6.

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B65H 67/06 (2006.01)

CPC (source: CN EP)
B65H 67/0411 (2013.01 - CN); **B65H 67/065** (2013.01 - EP); **B65H 67/068** (2013.01 - CN); **B65H 2701/31** (2013.01 - EP)

Citation (applicant)
• JP H04280777 A 19921006 - TSUDAKOMA IND CO LTD
• JP H05319696 A 19931203 - MURATA MACHINERY LTD

Citation (search report)
• [AD] JP H04280777 A 19921006 - TSUDAKOMA IND CO LTD & US 5218748 A 19930615 - TANAKA MASAYOSHI [JP], et al
• [A] US 5316126 A 19940531 - HIRAI KAZUYASU [JP]
• [A] US 2002098065 A1 20020725 - WOLF JORG [DE], et al

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
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