

Title (en)  
PAPER TUBE MANUFACTURING MACHINE, MANUFACTURING METHOD FOR SAME, AND PAPER TUBE MANUFACTURED BY SAID MANUFACTURING METHOD

Title (de)  
PAPIERRÖHRENHERSTELLUNGSMASCHINE, HERSTELLUNGSVERFAHREN DAFÜR UND DURCH BESAGTES HERSTELLUNGSVERFAHREN HERGESTELLTE PAPIERRÖHRE

Title (fr)  
MACHINE À FABRIQUER DES TUBES DE PAPIER, PROCÉDÉ DE FABRICATION DE CES DERNIERS ET TUBE DE PAPIER FABRIQUÉ PAR LEDIT PROCÉDÉ DE FABRICATION

Publication  
**EP 2845499 A1 20150311 (EN)**

Application  
**EP 12887644 A 20121031**

Priority  
JP 2012078178 W 20121031

Abstract (en)  
A paper tube manufacturing machine of the present invention has: a transfer path for guiding transfer of a paper web having multiple cut grooves; and a web bending device for bendings the paper web and forming the paper web into a paper tube, and the web bending device includes a garniture belt, a tube forming section, and an applicator. The tube forming section, in the course of the transfer of the paper web, forms the paper web continuously into a paper tube using the garniture belt while maintaining the inner surface of the paper web in a free state, and thereby the paper tube has a lapped portion where both side edges of the paper web are lapped. Meanwhile, the applicator applies an adhesive to one of both side edges of the paper web before the lapped portion is formed, to thereby bond the both side edges with each other in the lapped portion.

IPC 8 full level  
**A24F 47/00** (2006.01); **A24C 5/14** (2006.01); **A24C 5/46** (2006.01); **B31F 1/08** (2006.01)

CPC (source: CN EP RU)  
**A24C 5/46** (2013.01 - CN EP RU); **B31C 5/00** (2013.01 - EP); **B31F 1/08** (2013.01 - CN EP)

Cited by  
EP3424351A1; IT202200019926A1; WO2021185486A1; WO2021156185A1; EP3332655B1; EP3357354B1

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 2845499 A1 20150311**; **EP 2845499 A4 20160120**; **EP 2845499 B1 20191016**; CN 104411190 A 20150311; CN 104411190 B 20161012; JP 5921008 B2 20160524; JP WO2014068703 A1 20160908; RU 2015120594 A 20161220; RU 2611276 C2 20170221; UA 110914 C2 20160225; WO 2014068703 A1 20140508

DOCDB simple family (application)  
**EP 12887644 A 20121031**; CN 201280074189 A 20121031; JP 2012078178 W 20121031; JP 2014544119 A 20121031; RU 2015120594 A 20121031; UA A201505264 A 20121031