

Title (en)
CORELESS ROLLS OF A TISSUE PAPER PRODUCT AND METHODS OF MANUFACTURING CORELESS ROLLS

Title (de)
KERNLOSE ROLLEN EINES TISSUEPAPIERPRODUKTS UND VERFAHREN ZUR HERSTELLUNG KERNLOSER ROLLEN

Title (fr)
ROULEAUX SANS NOYAU D'UN PRODUIT D'OUATE DE CELLULOSE ET PROCÉDÉS DE FABRICATION DE ROULEAUX SANS NOYAU

Publication
EP 4176126 A1 20230510 (EN)

Application
EP 20753796 A 20200703

Priority
IB 2020000583 W 20200703

Abstract (en)
[origin: WO2022003380A1] This disclosure relates to a coreless roll of a tissue paper product, such as toilet paper, made of a spirally wound continuous web of tissue paper product having a first end and a second end and having an outer diameter in the range of 95 to 150 mm. The web of tissue paper product is wound such as to define an axially extending inner hole centrally positioned relative to the coreless roll and such that the first end is located on the outer side of the coreless roll and the second end is located at the inner hole. A diameter of the inner hole is in the range of 20 to 50 mm. A density of the coreless roll is in a range of 80 to 160 kg/m³. A caliper ratio of the roll is in a range of 10% to 80%. The tissue paper product comprises between two and six plies of Conventional Wet Press paper (CWP), wherein at least one of the plies is an embossed ply, and the plies are ply-bonded. The grammage of the tissue paper product is in a range of 24 g/m² to 125 g/m².

IPC 8 full level
D21H 27/00 (2006.01); **D21H 27/02** (2006.01); **D21H 27/30** (2006.01); **D21H 27/40** (2006.01)

CPC (source: EP US)
D21H 27/004 (2013.01 - EP); **D21H 27/007** (2013.01 - US); **D21H 27/02** (2013.01 - EP US); **D21H 27/30** (2013.01 - EP); **D21H 27/40** (2013.01 - EP US); **A47K 2010/3206** (2013.01 - EP US)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022003380 A1 20220106; CN 115735031 A 20230303; CO 2022017942 A2 20221220; CR 20220682 A 20230418; EC SP22098070 A 20230131; EP 4176126 A1 20230510; MX 2022015936 A 20230124; US 2023265617 A1 20230824

DOCDB simple family (application)
IB 2020000583 W 20200703; CN 202080102390 A 20200703; CO 2022017942 A 20221212; CR 20220682 A 20200703; EC DI202298070 A 20221228; EP 20753796 A 20200703; MX 2022015936 A 20200703; US 202018012955 A 20200703