

Title (en)
PAPER HANDKERCHIEF FOLDING DEVICE

Title (de)
FALTVORRICHTUNG FÜR PAPIERTASCHENTUCH

Title (fr)
DISPOSITIF DE PLIAGE DE MOUCHOIR EN PAPIER

Publication
EP 3018084 B1 20191225 (EN)

Application
EP 14820197 A 20140609

Priority
• CN 201310276148 A 20130702
• CN 2014079470 W 20140609

Abstract (en)
[origin: EP3018084A1] A paper handkerchief folding device, comprises a longitudinal folding unit (1), a transverse folding unit (2) and a flower plate unit (5) in a sequential connection, and paper webs (3) are strung on the longitudinal folding unit (1) and the transverse folding unit (2) sequentially in a tensioning mode. A paper handkerchief is folded into three folding surfaces in a zigzag manner along its width direction by the longitudinal folding unit (1), and then folded in half twice along its length direction to form four folding surfaces by the transverse folding unit (2). The paper handkerchief folding device ensures high production efficiency, high production speed, low production cost, and the produced paper handkerchief has adjustable specification, and is more exquisite.

IPC 8 full level
B65H 33/16 (2006.01); **B65H 45/16** (2006.01); **B65H 45/22** (2006.01); **B65H 45/28** (2006.01); **B65H 45/30** (2006.01)

CPC (source: EP)
B65H 33/16 (2013.01); **B65H 45/162** (2013.01); **B65H 45/22** (2013.01); **B65H 45/28** (2013.01); **B65H 45/30** (2013.01); **B65H 2701/1924** (2013.01)

Citation (opposition)
Opponent : Winkler + Dünnebier GmbH
• JP S59124253 A 19840718 - SANSHIYOU SHIGIYOU KK
• CN 202293441 U 20120704 - JIANGXI OUKE TECHNOLOGY CO LTD
• JP 2003070612 A 20030311 - YONEYAMA KATSU
• DE 9106602 U1 19910718
• DE 102011116003 A1 20120419 - WINKLER & DUENNEBIER GMBH [DE]
• DE 2410943 A1 19740919 - PAPER CONVERTING MACHINE CO
• DE 69430755 T2 20030130 - KIMBERLY CLARK AUSTRALIA [AU]
• EP 0411257 B1 19940803 - WINKLER DUENNEBIER KG MASCH [DE]
• DE 3521468 A1 19851219 - PAPER CONVERTING MACHINE CO [US]
• EP 1451088 B1 20050615 - KOENIG & BAUER AG [DE]

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

DOCDB simple family (publication)
EP 3018084 A1 20160511; EP 3018084 A4 20170726; EP 3018084 B1 20191225; CN 103332525 A 20131002; CN 103332525 B 20150708; KR 101780158 B1 20170919; KR 20160024381 A 20160304; WO 2015000348 A1 20150108

DOCDB simple family (application)
EP 14820197 A 20140609; CN 201310276148 A 20130702; CN 2014079470 W 20140609; KR 20167001723 A 20140609