

Title (en)

MACHINE FOR DEWATERING AND DRYING A FIBROUS WEB

Title (de)

MASCHINE ZUR ENTWÄSSERUNG UND TROCKNUNG EINER FASERSTOFFBAHN

Title (fr)

MACHINE POUR DÉSHUMIDIFIER ET SÉCHER UNE BANDE DE MATIÈRE FIBREUSE

Publication

**EP 3464716 B1 20200212 (DE)**

Application

**EP 17725974 A 20170529**

Priority

- DE 102016209780 A 20160603
- EP 2017062865 W 20170529

Abstract (en)

[origin: WO2017207475A1] The invention relates to a machine for dewatering and drying a paper, cardboard or other fibrous web (1), to which machine a fibrous stock suspension which is formed at least partially from waste paper is fed, having at least two pressure nips (2, 3) which are formed by in each case two press rolls (4, 5, 6, 7), wherein the fibrous web (1) with in each case one water-absorbing dewatering belt (8, 9) on both sides runs through the second pressure nip (3) through the first (2) and at least one other dewatering belt (10), and a smooth impermeable transfer belt (11) is guided through the second pressure nip (3) on that side of the fibrous web (1) which lies opposite the other dewatering belt (10), which transfer belt (11) transfers the fibrous web (1) downstream of the second pressure nip (3) to a belt (12) of a following machine unit. Here, a reliable web-wide transfer is to be made possible by virtue of the fact that the transfer belt (11) runs under the fibrous web (1), the receiving belt (12) is a dryer fabric, and the following machine unit is a drying group, in which the fibrous web (1) is guided in a serpentine-shaped manner over heated drying cylinders (19) and evacuated guiding rollers (20) in an alternating way, and a drying cylinder (19) of the following drying group is assigned at least one removal doctor (24), wherein a pulper (23) is situated under the removal doctor (24), and the axis of the drying cylinder (19) with the removal doctor (24) and the axis of the following, evacuated guiding roller (20) are offset vertically with respect to one another and are at a horizontal spacing (22) from one another which is greater than 80% of the sum of the radii of said drying cylinder (19) and said guiding roller (20).

IPC 8 full level

**D21F 1/32** (2006.01); **D21F 3/04** (2006.01); **D21F 5/04** (2006.01); **D21F 7/04** (2006.01)

CPC (source: EP US)

**D21F 1/32** (2013.01 - EP US); **D21F 1/76** (2013.01 - US); **D21F 3/045** (2013.01 - EP US); **D21F 5/042** (2013.01 - EP US); **D21F 7/04** (2013.01 - EP)

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)

**WO 2017207475 A1 20171207**; CN 109563683 A 20190402; CN 109563683 B 20210309; DE 102016209780 A1 20171207; EP 3464716 A1 20190410; EP 3464716 B1 20200212; US 11286617 B2 20220329; US 2019100876 A1 20190404

DOCDB simple family (application)

**EP 2017062865 W 20170529**; CN 201780034291 A 20170529; DE 102016209780 A 20160603; EP 17725974 A 20170529; US 201816207902 A 20181203