

Title (en)

HEADBOX FOR A MACHINE FOR PRODUCING A FIBROUS WEB

Title (de)

STOFFAUFLAUF FÜR EINE MASCHINE ZUR HERSTELLUNG DER FASERSTOFFBAHN

Title (fr)

CAISSE DE TÊTE POUR MACHINE DE FABRICATION D'UNE BANDE DE MATIÈRE FIBREUSE

Publication

**EP 2379800 B1 20121212 (DE)**

Application

**EP 09740126 A 20091022**

Priority

- EP 2009063846 W 20091022
- DE 102008054896 A 20081218

Abstract (en)

[origin: WO2010069653A1] The invention relates to a headbox (1) which comprises a feed device (4, 5.1; 4, 5.2) feeding the at least one fiber suspension (2), a perforated distribution pipe plate (6) arranged immediately downstream thereof and having a plurality of channels (7) arranged in lines (Z) and columns (S), an intermediate channel (8) arranged downstream thereof, extending over the width (B) of the headbox (1) and having a plurality of means (9, 9.1) for dosing a fluid (10) in partial fluid streams (10.T) to the at least one fiber suspension (2) in a preferably adjustable/controlled manner, the means being spaced apart from each other in the width direction of the headbox (1) and the individual means (9; 9.1) comprising a plurality of dosing channels (11) having respective dosing channel openings (11.O) and an opening center line (11.M), arriving at different levels and being connected to a common supply channel (12). The headbox further comprises a downstream turbulence generator (13) having a plurality of flow channels (14) arranged in lines (Z) and columns (S) and a headbox nozzle (16) which is directly contiguous to the turbulence generator (13) and which has a nozzle gap (17). The headbox (1) according to the invention has a system pressure loss which is substantially composed of a first pressure loss (?p1) between the feed device (4, 5.1; 4, 5.2) and the intermediate channel (8) and a second pressure loss (?p2) in the turbulence generator (13), the second pressure loss (?p2) and the first pressure loss (?p1) being in a ratio ranging from 8:1 to 1:1, preferably from 4:1 to 1:1, particularly from 2:1 to 1:1.

IPC 8 full level

**D21F 1/02** (2006.01)

CPC (source: EP US)

**D21F 1/02** (2013.01 - EP US); **D21F 1/022** (2013.01 - EP US)

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**WO 2010069653 A1 20100624**; CN 102216523 A 20111012; CN 102216523 B 20140101; DE 102008054896 A1 20100701; EP 2379800 A1 20111026; EP 2379800 B1 20121212; US 2011265968 A1 20111103; US 8236137 B2 20120807

DOCDB simple family (application)

**EP 2009063846 W 20091022**; CN 200980145601 A 20091022; DE 102008054896 A 20081218; EP 09740126 A 20091022; US 201113102688 A 20110506