

Title (en)

METHOD AND DEVICE FOR PRODUCING HIGHLY FILLED PAPERS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON HOCHGEFÜLLTEN PAPIEREN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FABRICATION DE PAPIERS À HAUTE TENEUR EN CHARGES

Publication

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Application

EP 16721778 A 20160504

Priority

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Abstract (en)

[origin: WO2016188715A1] The invention relates to a method for producing highly filled papers, in particular decorative papers for application on a substrate material, from an aqueous suspension, wherein the suspension is applied onto a revolving drainage screen by means of a headbox (1), comprising a turbulence generator (2) having a plurality of turbulence channels (7.1n, 7.2n, 7.3n, 7.4n) arranged side by side forming a row. Immediately adjacent to and downstream of the turbulence generator (2), a nozzle (3) is arranged, and the suspension is guided through the turbulence channels (7.1n, 7.2n, 7.3n, 7.4n) and through the nozzle (3) to form a suspension jet. The method according to the invention is characterized in that the papers are produced from an aqueous suspension having a total stock consistency of more than 1.5 %, a fiber stock consistency of less than 1.2 %, an ash mass fraction of greater than 30 %, and that at least three rows (7.1, 7.2, 7.3, 7.4) are arranged one above the other, and that the suspension is guided through the turbulence channels (7.1n, 7.2n, 7.3n, 7.4n) having a maximum hydraulic diameter (12) of less than 25 mm, in particular less than 20 mm, and subsequently, is guided through a nozzle (3) having a length (6) of more than 500 mm, in particular more than 700 mm, and that lamellae (4) are placed in the nozzle (3) between the adjacent rows of the turbulence generator (2), which, starting at the turbulence generator (2), extend over at least a portion of the length (6) of the nozzle. The invention further relates to a headbox for carrying out the method.

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