

Title (en)

Method and device for moistening a fibrous web

Title (de)

Verfahren und Vorrichtung zum Befeuchten einer Faserstoffbahn

Title (fr)

Méthode et dispositif pour humidifier une bande de matière fibreuse

Publication

EP 2119826 B1 20110126 (DE)

Application

EP 09159959 A 20090512

Priority

DE 102008023924 A 20080516

Abstract (en)

[origin: EP2119826A1] The method comprises applying liquid and then steam on a fibrous web (2). The steam is applied as long as until 90% of the liquid are present on the surface of the web. After the application of the liquid, the steam is applied to a temporal interval of 1-100 ms and is applied with a spatial distance of 50-500 mm. The liquid is applied by saturated steam or wet steam, is heated before applying and is applied in the form of ice. The liquid from a liquid dispensing device (4) has a larger distance to the fibrous material web than the steam from a steam dispensing device (5). The method comprises applying liquid and then steam on a fibrous web (2). The steam is applied as long as until 90% of the liquid are present on the surface of the web. After the application of the liquid, the steam is applied to a temporal interval of 1-100 ms and is applied with a spatial distance of 50-500 mm. The liquid is applied by saturated steam or wet steam, is heated before applying and is applied in the form of ice. The liquid from a liquid dispensing device (4) has a larger distance to the fibrous material web than the steam from a steam dispensing device (5). The liquid mist and/or the steam suck off. The web temperature is 85-90[deg] C after the application of the steam. The liquid is applied as is required for a desired temperature increase through the subsequent application of the steam and as is required for remoistening the web. The application of the liquid uniformly distributes through the subsequent application of the steam. The liquid and/or the steam are applied over slit nozzles. The liquid is provided with additives and is applied in a quantity of 0.2-1.5 g/m² related to the surface of the fibrous web. The liquid is water, coating color, starch solution and coating chemicals. An independent claim is included for a device for moistening a fibrous web such as paper- or cardboard web.

IPC 8 full level

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CPC (source: EP)

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