

Title (en)

PROCESS FOR GLAZING PAPER WEBS

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Application

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Priority

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Abstract (en)

[origin: WO9007027A1] Glazing is effected in the nip (3) of a calender (2) under the action of pressure, moisture and heat. The desired surface quality is obtained by bringing the surface of the paper or cardboard web (1) to be glazed in the nip (3) to a state above the second-order transition temperature curve of the material. Within 20 to 60 ms (milliseconds), the surface of the paper web (1) leaving the nip (3) first undergoes a transition step in a cooling device (4) in combination with a change in moisture content to a state below the second-order transition point of the material. The surface can be cooled by contact with a chilled surface (8) or by direct contact with a cooling, preferably inert gas. The increase in roughness of the paper web (1) after glazing is thereby reduced, so that the surface quality attained in the nip (3) remains essentially constant. Devices for implementing the process are disclosed.

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