

Title (en)

Process and apparatus for drying sheet materials.

Title (de)

Verfahren und Vorrichtung zur Trocknung von bahnförmigem Material.

Title (fr)

Procédé et dispositif pour le séchage de matériaux en bande.

Publication

EP 0653514 A3 19960214 (EN)

Application

EP 94308397 A 19941114

Priority

- JP 30977493 A 19931115
- JP 14705994 A 19940606
- JP 14706094 A 19940606
- JP 27850894 A 19941017
- JP 27847394 A 19941018
- JP 28746994 A 19941027

Abstract (en)

[origin: EP0653514A2] An apparatus and method for drying a wet sheet material such as a paper web is presented. The apparatus is provided with a suitable number of dryer cylinders operating in conjunction with a plurality of steam blast ports disposed adjacent to the dryer cylinders. A vertically movable canopy hood and a middle hood having sheet entry/exit opening and a door opening device are provided. The wet sheet material is held between two endless fabric belt, and passed through the dryer cylinders alternatively by means of suction fabric rolls, fabric rolls and fabric tension rolls. The drying process is carried out in an atmosphere of superheated steam of over 100 DEG C inside the canopy hood and the middle hood, and the steam generated from the wet sheets is recirculated through an exhaust screen, a super heated steam circulating fan, an adiabatic compressor and a supply duct. Another atmosphere of heated moist air having a dew point of at least 80 DEG C is also employed. The dried paper product manufactured has high dimensional stability and exhibits superior printing characteristics and substantially increased paper strength, and the process is highly energy conserving. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

D21F 5/00 (2013.01); **D21F 5/042** (2013.01); **D21F 5/044** (2013.01)

Citation (search report)

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