

Title (en)

METHOD AND APPARATUS FOR STOCK DEFLOCCULATION ON THE FOURDRINIER MACHINE WIRE

Publication

**EP 0078406 B1 19861105 (EN)**

Application

**EP 82109117 A 19821002**

Priority

- US 30891981 A 19811005
- US 40465182 A 19820803

Abstract (en)

[origin: EP0078406A2] Paper stock is deflocculated on the machine wire by laying down a ridged layer of stock and phase-shifting the ridges without substantial dewatering. This phase shifting creates cross-machine direction (MCD) mass transfer of the stock and deflocculating CMD shear forces within it. Apparatus comprises a serrated slice or other means for delivering ridged-stock to the wire in combination with a series of foil blades beneath the machine wire adjacent to the headbox, each blade having a recessed land inclined first downward and then upward in the direction of machine motion and with substantially no dewatering of the stock on the wire until the stock reaches a location downward from the blades, causing water to be repeatedly drawn through the wire and directed upwardly by the inclined land, causing phase shifting of the ridges and hence CMD shear and significant deflocculation before any web formation occurs.

IPC 1-7

**D21F 1/48; D21F 1/20**

IPC 8 full level

**D21F 1/20** (2006.01)

CPC (source: EP)

**D21F 1/20** (2013.01)

Cited by

US4789433A; US4657635A; US4838996A; GB2183685A; GB2183685B; WO8606117A1

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0078406 A2 19830511; EP 0078406 A3 19841010; EP 0078406 B1 19861105; DE 3274132 D1 19861211**

DOCDB simple family (application)

**EP 82109117 A 19821002; DE 3274132 T 19821002**