

Title (en)

Method and apparatus for stock deflocculation on the Fourdrinier machine wire.

Title (de)

Verfahren und Vorrichtung zum Entflocken einer Faserstoffaufschwemmung auf dem Sieb einer Fourdriniermaschine.

Title (fr)

Procédé et dispositif pour défloconner la pâte à papier sur la toile d'une machine Fourdrinier.

Publication

EP 0078406 A2 19830511 (EN)

Application

EP 82109117 A 19821002

Priority

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- US 40465182 A 19820803

Abstract (en)

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.

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US4657635A; US4838996A; US4789433A; GB2183685A; GB2183685B; WO8606117A1

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