

Title (en)

USE OF ULTRASONICS IN CONNECTION WITH PAPER MAKING

Title (de)

VERWENDUNG VON ULTRASCHALL IN DER PAPIERHERSTELLUNG

Title (fr)

UTILISATION DE L'ULTRA-ACOUSTIQUE DANS LA FABRICATION DU PAPIER

Publication

**EP 0755469 A1 19970129 (EN)**

Application

**EP 95916891 A 19950412**

Priority

- SE 9500398 W 19950412
- SE 9401272 A 19940414

Abstract (en)

[origin: WO9528521A1] Method for preventing fibre flocculations to occur and to disperse already formed fibre flocculations, better to distribute additive chemicals, to increase fibrillation, to improve reaction and yield from two component chemicals, to prevent the forming of microbiological and other types of build-ups onto machine parts and other parts of the white water circulations, to prevent the filling of wires and felts, to prevent flocculation in coating equipments, to reduce content of air in the stock, and to reduce the foaming. This is achieved by that ultrasonic energy with a frequency of 15 - 60 kHz is added to the stock, machine parts, washing trays or coaters via externally mounted ultrasonic transducers or internally applied submersible ultrasonic units. The ultrasonic energy is added preferably by means of externally onto the head box mounted ultrasonic transducers or internally applied submersible ultrasonic units. The level of ultrasonic energy is controlled by in-line installed formation or flocculation size measurement systems to arrive at desired flocculation. The measured flocculation is used as a criterium for set point optimisation of weight per unit area for the paper or the board produced, and for maximum production per unit of time.

IPC 1-7

**D21H 23/00**

IPC 8 full level

**B01J 19/10** (2006.01); **D21F 1/00** (2006.01); **D21F 1/02** (2006.01); **D21F 1/32** (2006.01); **D21H 23/00** (2006.01)

CPC (source: EP)

**B01J 19/10** (2013.01); **D21F 1/0018** (2013.01); **D21F 1/02** (2013.01); **D21F 1/028** (2013.01)

Citation (search report)

See references of WO 9528521A1

Designated contracting state (EPC)

AT DE ES FR GB IT NL SE

DOCDB simple family (publication)

**WO 9528521 A1 19951026**; AU 2377895 A 19951110; CA 2187734 A1 19951026; CN 1149898 A 19970514; EP 0755469 A1 19970129; FI 964078 A0 19961011; FI 964078 A 19961011; JP H09512063 A 19971202; SE 9401272 D0 19940414; SE 9401272 L 19951015

DOCDB simple family (application)

**SE 9500398 W 19950412**; AU 2377895 A 19950412; CA 2187734 A 19950412; CN 95193438 A 19950412; EP 95916891 A 19950412; FI 964078 A 19961011; JP 52689995 A 19950412; SE 9401272 A 19940414