

Title (en)

A MULTILAYER HEADBOX FOR A PAPERMAKING MACHINE

Title (de)

MEHRSCICHTENSTOFFAUFLAUF FÜR EINE PAPIERMASCHINE

Title (fr)

CAISSE DE TETE MULTICOUCHE DESTINEE A UNE MACHINE DE FABRICATION DE PAPIER

Publication

**EP 0939842 B2 20060628 (EN)**

Application

**EP 97927534 A 19970529**

Priority

- SE 9700921 W 19970529
- SE 9602347 A 19960612

Abstract (en)

[origin: WO9747804A1] A multilayer headbox for a papermaking machine which comprises a slice chamber having an upstream inlet and a downstream outlet. A tube bank comprising a plurality of straight tubes is located upstream of the slice chamber. In the slice chamber, at least one machine-wide separator vane is subdividing the slice chamber for the production of multilayered fibrous webs. The separator vane may be a tapered glass fiber reinforced epoxy resin vane or composed of an upstream steel section of constant thickness and a downstream tapered section of glass fiber reinforced epoxy resin. The separator vane has a stiffness, which for at least 70 % of its length is higher than the stiffness of a 1 mm thick reference sheet of a material having a modulus of elasticity of 2100 MPa. In the slice chamber, there is also a plurality of machine-wide turbulence generating elements.

IPC 8 full level

**D21F 1/02** (2006.01); **D21F 9/00** (2006.01)

CPC (source: EP)

**D21F 1/02** (2013.01); **D21F 1/028** (2013.01); **D21F 9/006** (2013.01)

Citation (opposition)

Opponent :

- EP 0158584 A2 19851016 - BELOIT CORP [US]
- EP 0711869 A2 19960515 - VOITH SULZER PAPIERMASCH GMBH [DE]
- US 4141788 A 19790227 - JUSTUS EDGAR J
- US 3923593 A 19751202 - VERSEPUT HERMAN WARD
- EP 0147350 A2 19850703 - BELOIT CORP [US]
- US 4566945 A 19860128 - EWALD JAMES L [US], et al
- US 4617091 A 19861014 - RODAL JOSE J A [US], et al
- DE 4329810 A1 19940623 - VOITH GMBH J M [DE]
- GB 2046323 A 19801112 - BELOIT CORP
- DE 3704462 A1 19880811 - ESCHER WYSS GMBH [DE]
- EP 0581051 B1 19951129 - VOITH SULZER PAPIERMASCH GMBH [DE]
- CA 1139142 A 19830111 - KARLSTAD MEKANISKA AB

Cited by

EP2098635A3

Designated contracting state (EPC)

AT DE FI FR GB IT SE

DOCDB simple family (publication)

**WO 9747804 A1 19971218**; AT E223534 T1 20020915; DE 69715236 D1 20021010; DE 69715236 T2 20030522; DE 69715236 T3 20061214; EP 0939842 A1 19990908; EP 0939842 B1 20020904; EP 0939842 B2 20060628; JP 3194967 B2 20010806; JP H11514050 A 19991130; SE 506931 C2 19980302; SE 9602347 D0 19960612; SE 9602347 L 19971213

DOCDB simple family (application)

**SE 9700921 W 19970529**; AT 97927534 T 19970529; DE 69715236 T 19970529; EP 97927534 A 19970529; JP 50150598 A 19970529; SE 9602347 A 19960612