

Title (en)
Headbox

Title (de)
Stoffauflauf

Title (fr)
Caisse de tête

Publication
EP 1659213 A3 20060823 (DE)

Application
EP 05110751 A 20051115

Priority
DE 102004055919 A 20041119

Abstract (en)
[origin: EP1659213A2] A papermaking assembly has a headbox with a mixer station (12) in which two or more components of different consistency combine prior to discharge through a vortex generator (14) and outlet jet (16). The mixer stage has a series of channels with profiled sidewalls. Each mixer channel is deeper than it is wide, The mixer stage also has an incoming supply of water to dilute the suspension. The mixer (20) sidewalls are profiled with a corrugated or napped surface.

IPC 8 full level
D21F 1/02 (2006.01)

CPC (source: EP)
D21F 1/02 (2013.01); **D21F 1/022** (2013.01); **D21F 1/024** (2013.01)

Citation (search report)

- [X] DE 19908898 A1 20000907 - VOITH SULZER PAPIERTECH PATENT [DE]
- [X] EP 0633352 A1 19950111 - VALMET PAPER MACHINERY INC [FI]
- [XY] US 5707495 A 19980113 - HEINZMANN HELMUT [DE], et al
- [XY] DE 10245154 A1 20040415 - VOITH PAPER PATENT GMBH [DE]
- [Y] DE 3607306 A1 19870910 - VOITH GMBH J M [DE]
- [PX] EP 1496151 A1 20050112 - VOITH PAPER PATENT GMBH [DE]
- [X] DE 4416909 A1 19951116 - VOITH SULZER PAPIERMASCH GMBH [DE]
- [X] EP 0629739 A1 19941221 - ESCHER WYSS GMBH [DE]
- [X] EP 0824157 A2 19980218 - VOITH SULZER PAPIERMASCH GMBH [DE]
- [X] DE 10106538 A1 20020822 - VOITH PAPER PATENT GMBH [DE]

Cited by
CN101939086A; WO2009097877A1; WO2009097878A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1659213 A2 20060524; EP 1659213 A3 20060823; DE 102004055919 A1 20060524

DOCDB simple family (application)
EP 05110751 A 20051115; DE 102004055919 A 20041119