

Title (en)

Manifold in an apparatus for jetting high velocity liquid streams

Title (de)

Düsenbalken an einer Vorrichtung zur Erzeugung von Flüssigkeitsstrahlen

Title (fr)

Injecteur pour un dispositif envoyant de l'eau sous pression

Publication

EP 0725175 A3 19970108 (DE)

Application

EP 96100633 A 19960118

Priority

- DE 19501738 A 19950123
- DE 19501739 A 19950123

Abstract (en)

[origin: US5692278A] A jet bar on a device for producing streams of liquid for jet interweaving of the fibers of a fiber web guided along the bar includes an upper part that extends over the operating width of the fiber web and a lower part fastened thereto in a liquid-tight manner. In the upper part and extending over its length, a pressure chamber is located which receives liquid that is under pressure, endwise for example. Parallel thereto, with an intermediate partition, a pressure distribution chamber is provided which is connected with the pressure chamber by throughflow holes for liquid extending through the intermediate partition. A jet sheet with holes for forming jets of liquid is mounted in a liquid-tight fashion on the lower part. In order to achieve a better equalization of the pressurized fluid entering the pressure distribution chamber, the pressure distribution chamber terminates in an area opposite the liquid throughflow holes in a slot that is narrow by comparison with the cross section of the pressure distribution chamber, said slot terminating close to or in proximity to holes in the jet sheet. The jet sheet is mounted in a liquid-tight fashion by means of a sealing O-ring. This O-ring can be replaced without disassembling the lower part from the upper part.

IPC 1-7

D04H 1/44

IPC 8 full level

B05B 1/14 (2006.01); **B05B 15/06** (2006.01); **B05B 15/65** (2018.01); **B05B 15/658** (2018.01); **D04H 1/44** (2006.01); **D04H 18/04** (2012.01); **B05B 1/04** (2006.01)

CPC (source: EP US)

B05B 1/14 (2013.01 - EP US); **B05B 15/65** (2018.02 - EP US); **B05B 15/658** (2018.02 - EP US); **D04H 18/04** (2013.01 - EP US); **B05B 1/04** (2013.01 - EP US)

Citation (search report)

- [X] US 3403862 A 19681001 - DWORJANYN LEE O
- [X] DD 220060 A1 19850320 - BERGER EBERHART, et al
- [X] GB 2208208 A 19890315 - HONEYCOMB SYSTEMS [US]
- [X] GB 2237824 A 19910515 - HONEYCOMB SYSTEMS [US]

Cited by

WO2006089601A1; WO2018068961A1; WO2018068962A1; WO2018068952A1; WO2018068951A1; CN109790664A; CN109790666A; IT201600076150A1; CN109790665A; DE102006014428B3; WO0224998A2; WO0115812A1; EP1053792A2; US7356892B2; WO2006081938A1; DE102016119482A1; DE102016119483A1; DE102016119481A1; DE102016119480A1; FR2836074A1; WO03070378A1; US7806349B2; WO03066948A1; WO02052083A3

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

US 5692278 A 19971202; DE 59601476 D1 19990429; EP 0725175 A2 19960807; EP 0725175 A3 19970108; EP 0725175 B1 19990324; JP 3665403 B2 20050629; JP H08226056 A 19960903

DOCDB simple family (application)

US 59032496 A 19960123; DE 59601476 T 19960118; EP 96100633 A 19960118; JP 823996 A 19960122