

Title (en)
Nozzle for jet fabric dyeing machine

Title (de)
Düse für Jetfärbemaschine für Stoffe

Title (fr)
Buse pour machine de teinture de tissus par jets

Publication
EP 1988205 A1 20081105 (EN)

Application
EP 07251840 A 20070502

Priority
EP 07251840 A 20070502

Abstract (en)
A nozzle assembly (10) for a jet fabric dyeing machine (1) comprises a tubular nozzle member through which fabric travels, the nozzle member defined by four side walls (26) and having a rectangular cross-section, and a nozzle gap (24) in a side wall (26A) of the nozzle member through which a jet of fluid can be applied to fabric in the nozzle member to propel the fabric along a travel path (T). An entry end (29) of the nozzle member has a decreasing cross-section to funnel fabric into the nozzle member, and an exit end (30) of the nozzle member has a rectangular guide tube (3) of expanding cross-section terminating in a fan-shaped trough (32). A fluid diverter (25, 27) intercepts part of the fluid jet and delivers it to a different side of the fabric.

IPC 8 full level
D06B 3/28 (2006.01)

CPC (source: EP KR)
D06B 3/20 (2013.01 - KR); **D06B 3/24** (2013.01 - KR); **D06B 3/28** (2013.01 - EP KR)

Citation (applicant)
• GB 2246372 A 19920129 - LIU CHING YUN
• US 5184486 A 19930209 - MURAI NAOBUMI [JP], et al
• US 4019351 A 19770426 - MIZUTANI HIROSHI, et al
• US 4143527 A 19790313 - TRULLAS ISIDRO F
• US 4489575 A 19841225 - ARASHI MASAHIRO [JP]
• US 5014525 A 19910514 - BENE ARMAND [FR]

Citation (search report)
• [X] GB 2246372 A 19920129 - LIU CHING YUN
• [X] US 5184486 A 19930209 - MURAI NAOBUMI [JP], et al
• [X] US 4019351 A 19770426 - MIZUTANI HIROSHI, et al
• [X] US 5014525 A 19910514 - BENE ARMAND [FR]
• [X] US 4143527 A 19790313 - TRULLAS ISIDRO F
• [X] US 4489575 A 19841225 - ARASHI MASAHIRO [JP]

Cited by
DE102013110492A1; DE102013110492B4; WO2024100426A1

Designated contracting state (EPC)
DE TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1988205 A1 20081105; EP 1988205 B1 20091230; CN 101298726 A 20081105; CN 101298726 B 20110727;
DE 602007004078 D1 20100211; KR 20080097901 A 20081106; TW 200844289 A 20081116; TW I363823 B 20120511

DOCDB simple family (application)
EP 07251840 A 20070502; CN 200810004959 A 20080131; DE 602007004078 T 20070502; KR 20070102711 A 20071011;
TW 96116697 A 20070510