

Title (en)  
Thread draw-off nozzle

Title (de)  
Fadenabzugsdüse

Title (fr)  
Buse de dévidage de fil

Publication  
**EP 2400049 B2 20181212 (DE)**

Application  
**EP 11166461 A 20110518**

Priority  
• DE 102010030536 A 20100625  
• DE 102011002972 A 20110121

Abstract (en)  
[origin: EP2400049A2] The nozzle (1) has a draw-off nozzle funnel (6) for deflecting a yarn (5) produced during yarn draw-off process. The draw-off nozzle funnel includes a two-part design with external and internal parts (6a, 6b) containing areas of a yarn deflection zone. The parts are made of different materials and/or comprise different coatings in the areas of the yarn deflection zone, where one of the parts includes a coating. The external part and a draw-off nozzle shaft (7) are formed as one part. A ceramic insert (9) is formed with a wear-protective bushing (12) as one piece.

IPC 8 full level  
**D01H 4/40** (2006.01)

CPC (source: EP US)  
**D01H 4/40** (2013.01 - EP US)

Citation (opposition)  
Opponent :  
WO 9404730 A1 19940303 - BURCKHARDT AMERICA INC [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
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CN 102296395 B 20160525; DE 102011002972 A1 20111229; US 2011315265 A1 20111229; US 8347597 B2 20130108

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**EP 11166461 A 20110518**; CN 201110174428 A 20110625; DE 102011002972 A 20110121; US 201113166919 A 20110623