

Title (en)  
SUB-NOZZLE FOR AIR JET LOOM

Title (de)  
HILFSDÜSE FÜR LUFTDÜSENWEBMASCHINE

Title (fr)  
BUSE AUXILIAIRE POUR MÉTIER À TISSER À JET D'AIR

Publication  
**EP 3640382 A1 20200422 (EN)**

Application  
**EP 19199242 A 20190924**

Priority  
• JP 2018195242 A 20181016  
• JP 2019070571 A 20190402

Abstract (en)  
A sub-nozzle (2) for an air jet loom includes: a cylindrical portion (11) opening at one end thereof; and a flat portion (12) close to another end of the cylindrical portion and having an ejection hole (10). The flat portion has a hollow tube shape as a result of front and rear wall portions (18) and (17) facing each other being connected to each other by a side wall portion (19) and includes a distal end portion closed by the side wall portion. The front wall portion of the flat portion includes a distal end-side flat surface portion (21) close to the distal end portion at an outer surface (16) of the front wall portion and inclining to approach the rear wall portion toward the distal end portion. The ejection hole is formed across the distal end-side flat surface portion and the side wall portion.

IPC 8 full level  
**D03D 47/30** (2006.01)

CPC (source: CN EP)  
**D03D 47/302** (2013.01 - CN EP)

Citation (applicant)  
JP H0860492 A 19960305 - TOYODA AUTOMATIC LOOM WORKS

Citation (search report)  
• [A] EP 1143054 A1 20011010 - TSUDAKOMA IND CO LTD [JP]  
• [A] EP 2610378 A1 20130703 - TOYOTA JIDOSHOKKI KK [JP]  
• [A] DE 19751354 C1 19990617 - DORNIER GMBH LINDAUER [DE]

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

Designated extension state (EPC)  
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DOCDB simple family (publication)  
**EP 3640382 A1 20200422; EP 3640382 B1 20210707**; CN 111058159 A 20200424; CN 111058159 B 20221111

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**EP 19199242 A 20190924**; CN 201910937068 A 20190929