

Title (en)
A NOZZLE HEAD AND A FILLING MACHINE PROVIDED WITH SAID NOZZLE HEAD

Title (de)
DÜSENKOPF UND MIT DIESEM DÜSENKOPF AUSGESTATTETE FÜLLMASCHINE

Title (fr)
TÊTE DE BUSE ET MACHINE DE REMPLISSAGE AINSI ÉQUIPÉE

Publication
EP 2490949 A4 20141001 (EN)

Application
EP 10825276 A 20101021

Priority
• SE 0901370 A 20091023
• SE 1000480 A 20100510
• SE 2010000252 W 20101021

Abstract (en)
[origin: WO2011049505A1] A nozzle head for filling a liquid into a package is adapted for minimization of splashing and foaming. Further the nozzle head being adapted to fill liquid into a package while being positioned above said package, and comprises an upper surface from which at least one inclined channel extend, the channel having a nozzle orifice in its downstream end, such that a liquid jet injected through the channel may be directed towards lateral walls of the package. The nozzle head is characterized in that the nozzle orifice projects out from the nozzle head, in the direction of the channel. A filling machine provided with said nozzle head is also disclosed.

IPC 8 full level
B65B 39/00 (2006.01); **B65B 3/22** (2006.01)

CPC (source: EP)
B65B 3/22 (2013.01); **B65B 39/004** (2013.01); **B65B 2039/009** (2013.01)

Citation (search report)
• [A] US 4375826 A 19830308 - STOHLQUIST ROGER H, et al
• [A] DE 1288935 B 19690206 - MEYER GEO J MFG CO
• [A] US 4253505 A 19810303 - SAUER HENRY, et al
• [A] US 4387748 A 19830614 - WHITE HUGH L [US]
• [A] GB 1481894 A 19770803 - BIG DRUM INC
• [A] WO 9715493 A1 19970501 - UPM KYMMENE OY [FI], et al
• [A] WO 9325437 A1 19931223 - SERVI TECH INC [US], et al
• [A] SE 457789 B 19890130 - JAGENBERG WERKE AG [DE]
• See references of WO 2011049505A1

Cited by
US11975348B2; US11267684B2; US11091359B2; US11524883B2

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)
WO 2011049505 A1 20110428; WO 2011049505 A4 20110714; BR 112012009469 A2 20160426; CN 102596729 A 20120718; CN 102596729 B 20140820; EP 2490949 A1 20120829; EP 2490949 A4 20141001; EP 2490949 B1 20160810

DOCDB simple family (application)
SE 2010000252 W 20101021; BR 112012009469 A 20101021; CN 201080047582 A 20101021; EP 10825276 A 20101021