

Title (en)
DISPENSER INCLUDING ARRAY OF LIQUID DISPENSING ELEMENTS

Title (de)
SPENDER MIT EINER ANORDNUNG AUS FLÜSSIGKEITSAUSGABEELEMENTEN

Title (fr)
DISTRIBUTEUR COMPRENANT UN ENSEMBLE D'ÉLÉMENTS DE DISTRIBUTION DE LIQUIDE

Publication
EP 2632727 A1 20130904 (EN)

Application
EP 11774161 A 20111014

Priority

- US 91177610 A 20101026
- US 91178210 A 20101026
- US 2011056251 W 20111014

Abstract (en)
[origin: WO2012058018A1] A liquid dispenser includes an array of liquid dispensing elements positioned on a substrate. Each liquid dispensing element includes a liquid dispensing channel positioned on the substrate. The liquid dispensing channel includes an outlet opening positioned on a wall opposite the substrate. A diverter member is associated with the liquid dispensing channel. A liquid return channel is positioned on the substrate in fluid communication with the liquid dispensing channel. A liquid supply channel is positioned on the substrate in fluid communication with the liquid dispensing channel. A liquid supply passage extends through the substrate in fluid communication with the liquid supply channel. A liquid return passage extends through the substrate in fluid communication with the liquid return channel. A liquid supply provides liquid that flows from each liquid supply channel through each liquid dispensing element to each liquid return channel. Each diverter member is selectively activated to divert a portion of the liquid flowing through the associated liquid dispensing channel through the outlet opening of the associated liquid dispensing channel to dispense a drop of the liquid.

IPC 8 full level
B41J 2/14 (2006.01)

CPC (source: EP)
B41J 2/1404 (2013.01); **B41J 2202/12** (2013.01)

Citation (search report)
See references of WO 2012058018A1

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 2012058018 A1 20120503; CN 103180146 A 20130626; CN 103180146 B 20150520; EP 2632727 A1 20130904; EP 2632727 B1 20150805

DOCDB simple family (application)
US 2011056251 W 20111014; CN 201180051587 A 20111014; EP 11774161 A 20111014