

Title (en)
MEMS BUBBLE GENERATOR FOR LARGE STABLE VAPOR BUBBLES

Title (de)
MEMS-BLASENERZEUGER FÜR GROSSE, STABILE DAMPFBLASEN

Title (fr)
GÉNÉRATEUR DE BULLES EN TECHNOLOGIE MEMS POUR LA PRODUCTION GROSSES BULLES DE VAPEUR STABLES

Publication
EP 2074054 A4 20100811 (EN)

Application
EP 06790347 A 20061009

Priority
AU 2006001477 W 20061009

Abstract (en)
[origin: WO2008043122A1] A MEMS vapour bubble generator that uses a heater in thermal contact with a liquid to generate a bubble. The heater is energized by an electrical pulse that is shaped to have a relatively low power, sub-nucleating portion and a high power portion that nucleates the bubble. The thermal energy transferred to the liquid by the sub-nucleating portion speeds up the nucleation of the bubble across the surface of the heater during the nucleating portion. This produces larger, more stable bubble having a regular shape.

IPC 8 full level
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CPC (source: EP)
B41J 2/0458 (2013.01); **B41J 2/04588** (2013.01); **B41J 2/04598** (2013.01); **B41J 2/1412** (2013.01)

Citation (search report)

- [X] EP 0354982 A1 19900221 - HEWLETT PACKARD CO [US]
- [X] US 2005007423 A1 20050113 - IIDA YOSHIHIRO [JP], et al
- [X] EP 1033249 A1 20000906 - CANON KK [JP]
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- [X] EP 1060891 A2 20001220 - CANON KK [JP]
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- [X] EP 0373894 A2 19900620 - HEWLETT PACKARD CO [US]
- See references of WO 2008043122A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
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DOCDB simple family (application)
AU 2006001477 W 20061009; AU 2006349360 A 20061009; CA 2662725 A 20061009; EP 06790347 A 20061009; JP 2009528548 A 20061009; TW 96103746 A 20070201