

Title (en)
THERMAL BLOCK

Title (de)
WÄRMEBLOCK

Title (fr)
BLOC THERMIQUE

Publication
EP 3814013 A4 20220330 (EN)

Application
EP 19826511 A 20190628

Priority
• KR 20180074957 A 20180628
• KR 2019007858 W 20190628

Abstract (en)
[origin: WO2020004999A1] The present disclosure relates to a thermal block for performing a plurality of reactions. In the thermal block, a plurality of sample wells are regularly arranged, and non-sample holes smaller than the sample wells are provided. Two or more non-sample holes are provided in a unit area defined by connecting central points of four adjacent sample wells among the plurality of sample wells in the thermal block. The thermal block prevents an error in which a reaction vessel may be erroneously fitted while minimizing the amount of thermal energy necessary to change the temperature thereof. The thermal block has superior durability to conventional thermal blocks.

IPC 8 full level
B01L 7/00 (2006.01); **B01L 3/00** (2006.01); **B01L 9/00** (2006.01); **B01L 9/06** (2006.01)

CPC (source: EP KR)
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Citation (search report)
• [I] US 2008003650 A1 20080103 - BANERJI SUNAND [US]
• [A] US 2014154734 A1 20140605 - LO SHIH-LI L [US]
• [A] US 2003072685 A1 20030417 - GOLDMAN JEFFREY A [US], et al
• [A] WO 2006124512 A2 20061123 - APPLERA CORP [US], et al
• See references of WO 2020004999A1

Designated contracting state (EPC)
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KR 20210014739 A 20210209

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