

Title (en)

METHOD AND DEVICE FOR GENERATING MICROCONVECTIONS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG VON MIKROKONVEKTIONEN

Title (fr)

PROCEDE ET DISPOSITIF SERVANT A PRODUIRE DES MICROCONVECTIONS

Publication

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Application

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Abstract (en)

[origin: WO0238262A1] The invention relates to a method for generating a convective liquid motion in a fluidic microsystem (100). According to this method, a liquid in a microsystem is simultaneously exposed to an electrical field and a thermal gradient. The electrical field is generated by means of an electrode arrangement (20) which is subjected to a time-variant voltage, so that a time-variant electrical field is formed in the liquid area. The thermal gradient is produced by means of at least one radiation absorber (30-32), located in the compartment (10), which is exposed to at least one external radiation field.

IPC 1-7

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