

Title (en)
MICRO-HEATING CONDUCTOR

Title (de)
MIKROHEIZLEITER

Title (fr)
MICRO CONDUCTEUR CHAUFFANT

Publication
EP 3491887 A1 20190605 (DE)

Application
EP 17748448 A 20170726

Priority
• DE 102016113747 A 20160726
• EP 2017068942 W 20170726

Abstract (en)
[origin: WO2018019915A1] The invention relates to a micro-heating conductor for a radiation source, wherein the micro-heating conductor is formed from a meandering heating conductor structure which has meandering protrusions and spans a heating conductor structure plane with a surface normal, wherein adjacent meandering protrusions are formed in the heating conductor structure plane and so as to face away from one another in opposite directions. The object of specifying a heating conductor geometry which avoids the disadvantages of the prior art and can be integrated into compact infrared spectroscopic devices is achieved in that the micro-heating conductor comprises at least two heating conductor structures, wherein the heating conductor structures are arranged next to one another, wherein a surface normal of a heating conductor structure plane of a first heating conductor structure encloses an angle α with a surface normal of a second heating conductor structure plane of a second heating conductor structure and at least two meandering protrusions of the first heating conductor structure are connected to at least two meandering protrusions of the second heating conductor structure and are designed in an electrically interconnected manner, wherein the micro-heating conductor has a homogeneous thickness.

IPC 8 full level
H05B 3/16 (2006.01)

CPC (source: EP US)
H05B 3/16 (2013.01 - EP US); **H05B 3/28** (2013.01 - US); **H05B 2203/003** (2013.01 - US); **H05B 2203/007** (2013.01 - US);
H05B 2203/032 (2013.01 - EP US)

Citation (search report)
See references of WO 2018019915A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2018019915 A1 20180201; CN 109565907 A 20190402; CN 109565907 B 20200626; DE 102016113747 A1 20180201;
EP 3491887 A1 20190605; EP 3491887 B1 20191106; US 10674567 B2 20200602; US 2019281665 A1 20190912

DOCDB simple family (application)
EP 2017068942 W 20170726; CN 201780046197 A 20170726; DE 102016113747 A 20160726; EP 17748448 A 20170726;
US 201716319427 A 20170726