

Title (en)
BURNER

Title (de)
BRENNER

Title (fr)
BRÛLEUR

Publication
EP 3412968 A1 20181212 (EN)

Application
EP 18176057 A 20180605

Priority
IT 201700062133 A 20170607

Abstract (en)
A burner (6) comprises a front frame (20) of sheet metal forming a front opening (22), a rear frame (24) of sheet metal different from the front frame (20) and forming one or more rear openings (25) overlapped with the front opening (22) of the front frame (20), a diffuser (4) sandwiched and retained between the front (20) and rear (24) frames, in which the front (20) and rear (24) frames are connected to each other by means of a mechanical fastening without welding (for example, by means of tox-clinching) in a plurality of mutually spaced discrete connection positions (26), in which the diffuser (4) extends at least partially around the connection positions (26) and has recesses (27) at the connection positions (26), so that the mechanical fastening without welding (e.g. tox-clinching) involves only the two sheet metals of the front (20) and rear (24) frames, but not also the diffuser (4).

IPC 8 full level
F23D 14/14 (2006.01)

CPC (source: CN EP)
F23D 14/02 (2013.01 - CN); **F23D 14/145** (2013.01 - EP); **F23D 14/46** (2013.01 - CN)

Citation (search report)
• [XAY] US 4039275 A 19770802 - MCGETTRICK CHARLES A
• [Y] EP 2876369 A1 20150527 - WORGAS BRUCIATORI SRL [IT]
• [Y] US 2016238243 A1 20160818 - GILIOLI MASSIMO [IT], et al
• [A] US 2015369495 A1 20151224 - MARICIC RICHARD [US], et al

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)
EP 3412968 A1 20181212; CN 109000227 A 20181214; IT 201700062133 A1 20181207

DOCDB simple family (application)
EP 18176057 A 20180605; CN 201810582300 A 20180607; IT 201700062133 A 20170607