

Title (en)  
TORCH APPARATUS

Title (de)  
BRENNERVORRICHTUNG

Title (fr)  
CHALUMEAU

Publication  
**EP 4053453 A1 20220907 (EN)**

Application  
**EP 22158894 A 20220225**

Priority  
DE 102021001165 A 20210304

Abstract (en)  
For improving predictability and stability of the hot process gas output of a torch apparatus (1; 1'), in particular a manually guided ambient air torch apparatus, the torch apparatus comprises a first, upstream section, the upstream section including a combustible gas intake member (2) and a gas mixing tube (4), and a second, downstream section, the downstream section including a burner array (12; 12'), the burner array being flow connected to the combustible gas mixing tube (4) by a flow spreader (7; 7'), the burner array together with the flow spreader being enclosed by an enclosure (21; 21'), the enclosure being configured to allow ambient air to enter at an upstream located position and to mantle the hot process gas output produced by the burner array.

IPC 8 full level  
**F23D 14/38** (2006.01); **F23D 14/52** (2006.01); **F23D 14/70** (2006.01)

CPC (source: EP)  
**F23D 14/38** (2013.01); **F23D 14/52** (2013.01); **F23D 14/70** (2013.01); **F23D 2900/14003** (2013.01)

Citation (search report)

- [A] US 3917442 A 19751104 - ZAGOROFF DIMITER S
- [A] US 2004072113 A1 20040415 - CHUAN CHIN-CHUNG [TW]
- [A] US 2533143 A 19501205 - SCHARBAU KURT A, 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 4053453 A1 20220907**; **EP 4053453 B1 20231122**; DK 4053453 T3 20240108; EP 4421385 A2 20240828; EP 4421385 A3 20241106; FI 4053453 T3 20240214

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**EP 22158894 A 20220225**; DK 22158894 T 20220225; EP 23000166 A 20220225; FI 22158894 T 20220225