

Title (en)

Apparatus for detecting the presence of a flame in a combustion chamber and ignition device for a burner

Title (de)

Vorrichtung zum Erfassen des Vorliegens einer Flamme im Brennraum eines Brenners und Zündvorrichtung für einen Brenner

Title (fr)

Appareil pour la détection de la présence d'une flamme dans une chambre de combustion et système d'allumage pour brûleur

Publication

EP 1707880 B1 20150520 (DE)

Application

EP 05027648 A 20051216

Priority

DE 102005012388 A 20050317

Abstract (en)

[origin: EP1707880A1] An ignition transducer (Zu1) applies an energizing voltage to an ignition electrode (ZE) of a burner. An ion current collection mechanism acquires an ion stream in a combustion chamber of the burner. The existence of a flame causes a shift in the potential of the energizing voltage applied to the ignition electrode, causing a current flow that results to the output of a signal indicating the presence of a flame.

IPC 8 full level

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CPC (source: EP)

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Cited by

CN111720851A; DE102019003451A1; DE102019119214A1; US9863635B2; WO2020228979A1

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