

Title (en)

Gas mixing block for supplying a flame ionisation detector with different fuels

Title (de)

Gasmischblock zur Versorgung eines Flammenionisationsdetektor mit verschiedenen Brennstoffen

Title (fr)

Bloc de mélange de gaz pour l'alimentation d'un détecteur à ionisation de flamme avec des combustibles variés

Publication

EP 2865942 A1 20150429 (EN)

Application

EP 13290253 A 20131023

Priority

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Abstract (en)

A mixing block (380) is disclosed for preparing a premix of combustible gas and air to be supplied to a flame detection electrode (382) or to an ignition electrode. The mixing block comprises: - an outlet channel (384) for guiding a premix of combustible gas and air out of the mixing block, - at least one inlet (384) for supplying air into the mixing block, - at least two connections (388, 389) to connect different supplies of combustible gas to the mixing block, - channels (392, 393) inside the mixing block to guide combustible gas from each of the at least two connections (388, 389). The at least two connections (388, 389) are connectable via these channels (392, 393) towards the outlet channel (384) in the mixing block, - a switch (396) for selecting from which of the at least two connections (388, 389) a flow connection is realized to the outlet channel (384). The gas / air mixture supplying tubes of the detection electrodes (382), downstream the outlet channel (384), are to be placed proximate an infrared radiation burner, from which the flame can propagate to the tube exits, thereby igniting the fuel/air mixture leaving them. These flames are to be recognised then for the ionisation current through the flame detection electrodes (382).

IPC 8 full level

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CPC (source: CN EP)

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F23N 2237/08 (2020.01 - EP)

Citation (search report)

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- [A] US 2007266765 A1 20071122 - DENG DAVID [US]

Cited by

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Designated contracting state (EPC)

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