

Title (en)

Process for producing combustion gases free of or containing little soot.

Title (de)

Verfahren zur Herstellung von russfreien oder russarmen Verbrennungsgasen.

Title (fr)

Procédé de préparation de gaz de combustion ne contenant pas de suie ou une faible quantité de suie.

Publication

EP 0017891 A2 19801029 (DE)

Application

EP 80101854 A 19800408

Priority

DE 2914700 A 19790411

Abstract (en)

1. A process for the preparation of combustion gases which are completely or substantially free from soot and are at from 200 degrees to 1600 degrees C, by igniting a mixture of oxygen and methanol and combusting from 85 to 99 per cent by weight of the total amount of methanol in the resulting flame, wherein methanol, in the liquid form, is mixed with oxygen at a flow velocity of from 1 to 100 meters per second in a proportion of from 50 to 150 per cent by weight of oxygen, based on methanol, the mixture is ignited, and combusted, in a perforated combustion chamber and steam entering, through the perforations of the combustion chamber, in a proportion of from 10 to 3000 per cent by weight of water, based on methanol, is admixed.

Abstract (de)

Herstellung von rußfreien oder rußarmen Verbrennungsgasen durch Vermischen von Sauerstoff bestimmter Strömungsgeschwindigkeit mit flüssigem Methanol in bestimmtem Gewichtsverhältnis, Zünden des so hergestellten Gemisches und unvollständige Verbrennung des Methanols in der gebildeten Flamme in Gegenwart bestimmter Mengen von Wasserdampf. Die Verbrennungsgase können als Heizgase, auch in all den Fällen, in denen Rußablagerung stören würde, verwendet werden.

IPC 1-7

F23L 7/00; C10L 1/02; C10L 3/00; C01B 3/22

IPC 8 full level

C01B 3/22 (2006.01); **C10L 1/02** (2006.01); **C10L 3/00** (2006.01); **F23L 7/00** (2006.01)

CPC (source: EP)

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