

Title (en)
METHOD AND DEVICE FOR COMBUSTION TYPE EXHAUST GAS TREATMENT

Title (de)
VERFAHREN UND VORRICHTUNG ZUR BEHANDLUNG VON VERBRENNUNGSABGASEN

Title (fr)
PROCEDE ET DISPOSITIF DE TRAITEMENT PAR COMBUSTION DES GAZ D'ECHAPPEMENT

Publication
EP 1312860 A4 20070228 (EN)

Application
EP 01956985 A 20010821

Priority
• JP 0107136 W 20010821
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• JP 2000294632 A 20000927

Abstract (en)
[origin: WO0216830A1] A combustion type exhaust gas treatment method capable of heat-decomposing or oxidation-decomposing the inflammable components in the exhaust gas by introducing the exhaust gas produced in an industrial product working process into a combustion flame, comprising the steps of producing hydrogen gas and oxide gas by the electrolysis of water, feeding the hydrogen gas and oxide gas as a combustion gas forming the combustion flame, and detecting the combustion flame with a UV sensor through a tube or a hole formed in the wall of a burner part on the upstream side of the combustion flame so that the combustion flame can be observed directly.

IPC 8 full level
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Citation (search report)
• [X] US 5997283 A 19991207 - SPIROS SPIRO ROSS [AU]
• [X] US 5705140 A 19980106 - JOHANSING JR P G [US]
• [X] EP 0748984 A1 19961218 - KODAK PATHE [FR], et al
• [XY] US 5900217 A 19990504 - HARTUNG ROLF [DE], et al
• [Y] US 3825913 A 19740723 - METCALF A, et al
• [Y] GB 2089502 A 19820623 - CERBERUS AG
• [A] DE 19509704 A1 19960912 - JUST HANS JUERGEN DR [DE], et al
• [A] US 5828797 A 19981027 - MINOTT GEORGE L [US], et al
• [A] JP S5759124 A 19820409 - NGK INSULATORS LTD
• [A] WO 8912774 A1 19891228 - ALLIED SIGNAL INC [US]
• [A] FR 2615596 A1 19881125 - ALSACE GAZ IND SA [FR]
• [XY] WO 0032990 A1 20000608 - EBARA CORP [JP], et al
• [Y] US 3985494 A 19761012 - CHILDREE HERMAN TRAVIS
• [X] WO 9927301 A1 19990603 - EBARA CORP [JP], et al
• [A] EP 0001437 A1 19790418 - BAYER AG [DE]
• [A] US 5527984 A 19960618 - STULTZ JEFFREY H [US], et al & EP 1143197 A1 20011010 - EBARA CORP [JP] & EP 1033533 A1 20000906 - EBARA CORP [JP]
• See references of WO 0216830A1

Citation (examination)
EP 0819887 A2 19980121 - OSAKA OXYGEN IND [JP]

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DOCDB simple family (application)
JP 0107136 W 20010821; EP 01956985 A 20010821; KR 20037002463 A 20030220; TW 90120453 A 20010821; US 36217203 A 20030707