

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International patent classification⁶: C01B 17/04	A1	(11) International publication number: WO 98/49098 (43) International publication date: 5 November 1998 (05.11.98)
(21) International application number: PCT/EP98/02297 (22) International filing date: 17 April 1998 (17.04.98) (30) Data relating to the priority: 197 18 261.5 30 April 1997 (30.04.97) DE (71) Applicant (for all designated States except US): MESSER GRIESHEIM GMBH [DE/DE]; Frankfurt Airport Center 1, C9, Hugo-Eckener-Ring, D-60547 Frankfurt (DE). (72) Inventors; and (75) Inventors/Applicants (US only): GROSS, Gerhard [DE/DE]; Bengdbruchstrasse 34, D-47877 Willich (DE). SPITALERI, Vincenzo [IT/DE]; Dahlmannstrasse 16, D-85051 Ingolstadt (DE).		(81) Designated states: PL, RO, SG, SI, US, European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With the International Search Report Before expiry of the period provided for amending the claims; Further publication will be made if such amendments are received. [stamp]

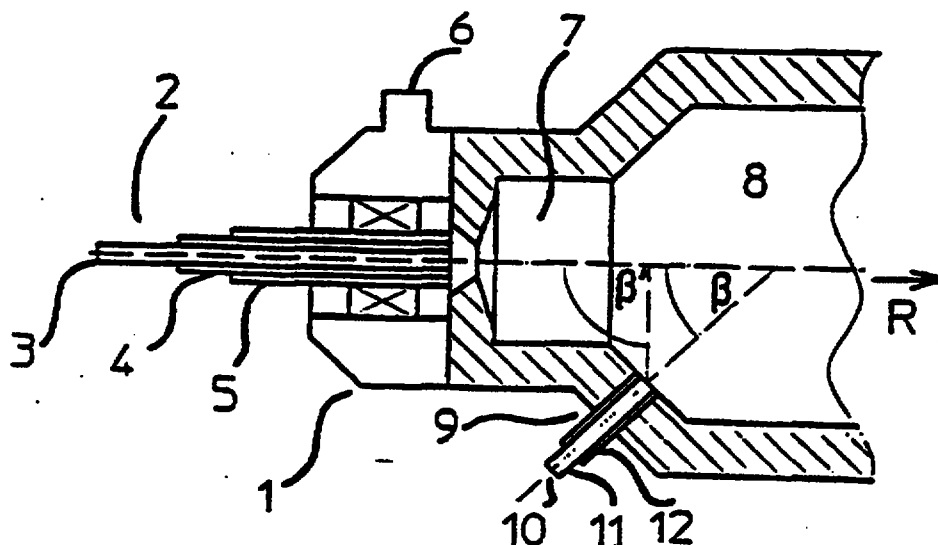
As printed

(54) Title: METHOD AND DEVICE FOR CONVERTING HYDROGEN SULFIDE INTO ELEMENTAL SULFUR

(54) Bezeichnung: VERFAHREN UND VORRICHTUNG ZUR UMWANDLUNG VON SCHWEFELWASSERSTOFF IN ELEMENTAREN SCHWEFEL

(57) Abstract

The invention relates to a method, specially the Claus process, for obtaining elemental sulfur by combustion of hydrogen sulfide or a gas containing hydrogen sulfide. According to said method, the hydrogen sulfide or gas containing hydrogen sulfide undergoes partial combustion by means of a first device in a burner of a combustion chamber using added air as an oxidizing agent. The oxygen or gas containing oxygen is fed into the combustion chamber by at least one second additional device pertaining to said combustion chamber. The hydrogen sulfide or gas containing hydrogen sulfide is afterburned and is then fed to a waste heat boiler, whereupon it is fed to one or more reactors.



(57) Zusammenfassung

Bei einem Verfahren zur Gewinnung von elementarem Schwefel durch Verbrennung von Schwefelwasserstoff oder eines schwefelwasserstoffhaltigen Gases, insbesondere Claus-Verfahren, wird der Schwefelwasserstoff oder das schwefelwasserstoffhaltige Gas über eine erste Einrichtung in einem Brenner in einer Brennkammer unter Zusatz von Luft als Oxidationsmedium teilverbrannt, wobei der Sauerstoff oder das sauerstoffhaltige Gas der Brennkammer über mindestens eine zweite, zusätzliche Einrichtung der Brennkammer zugeführt wird, wodurch der Schwefelwasserstoff oder das schwefelwasserstoffhaltige Gas nachverbrannt wird und anschließend einem Abhitzeessel und danach einem oder mehreren Reaktoren zugeführt wird.

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