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(21) International Application Number: PCT/NL99/00530 (22) International Filing Date: 25 August 1999 (25.08.99) (30) Priority Data: 98202837.5 25 August 1998 (25.08.98) EP (71) Applicants (for all designated States except US): GASTEC N.V. [NL/NL]; Wilmersdorf 50, NL-7327 AC Apeldoorn (NL). STORK ENGINEERS & CONTRACTORS B.V. [NL/NL]; Radarweg 60, NL-1043 NT Amsterdam (NL). (72) Inventors; and (75) Inventors/Applicants (for US only): BORSBOOM, Johannes [NL/NL]; Frans Halskade 104, NL-2282 VC Rijswijk (NL). VAN NISSELROOIJ, Petrus, Franciscus, Maria, Theresia [NL/NL]; Van Welderenstraat 50, NL-6511 MN Nijmegen (NL). (74) Agent: OTTEVANGERS, S., U.; Vereenigde Octrooibureaux, Nieuwe Parklaan 97, NL-2587 BN The Hague (NL).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: A PROCESS FOR THE RECOVERY OF SULPHUR FROM A HYDROGEN SULPHIDE, CONTAINING GAS (57) Abstract The invention is directed to a process for the recovery of sulphur from a hydrogen sulphide containing gas, which process comprises: i) oxidising part of the hydrogen sulphide in a gaseous stream with oxygen or an oxygen containing gas in an oxidation stage to sulphur dioxide; ii) reacting the product gas of this oxidation stage in at least two catalytic stages, in accordance with the Claus equation: $2 \text{H}_2\text{S} + \text{SO}_2 \longrightarrow 2 \text{H}_2\text{O} + 3/2 \text{S}_8$ iii) catalytically reducing SO_2 in the gas leaving the last of said at least two catalytic stages, wherein the catalytic reduction takes place in a catalyst bed downstream from the last Claus catalytic stage.		