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Yoshida et al.

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[54] **METHOD FOR REMOVING CARBON DIOXIDE FROM COMBUSTION EXHAUST GAS**

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Related U.S. Application Data

[63] Continuation of application No. 08/741,582, Nov. 1, 1996, abandoned, which is a continuation of application No. 08/328,398, Oct. 24, 1994, abandoned, which is a continuation of application No. 08/021,378, Feb. 23, 1993, abandoned.

[57] ABSTRACT

There are disclosed a method for removing CO₂ from a combustion exhaust gas which comprises the step of bringing the combustion exhaust gas under atmospheric pressure into contact with an aqueous solution of a hindered amine selected from the group consisting of 2-amino-2-methyl-1-propanol, 2-methylaminoethanol, 2-ethylaminoethanol and 2-piperidineethanol; and another method for removing carbon dioxide from a combustion exhaust gas which comprises the step of bringing the combustion exhaust gas under atmospheric pressure into contact with a mixed aqueous solution of 100 parts by weight of an amine compound (X) selected from the group consisting of 2-amino-2-methyl-1,3-propanediol, 2-amino-2-methyl-1-propanol, 2-amino-2-ethyl-1,3-propanediol, t-butyl-diethanolamine and 2-amino-2-hydroxymethyl-1,3-propanediol; and 1–25 parts by weight of an amine compound (Y) selected from the group consisting of piperazine, piperidine, morpholine, glycine, 2-methylaminoethanol, 2-piperidineethanol and 2-ethylaminoethanol.

[30] Foreign Application Priority Data

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[51] **Int. Cl.⁷** B01D 53/62

[52] **U.S. Cl.** 423/228; 423/229

[58] **Field of Search** 423/226, 228, 423/229

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2 Claims, 5 Drawing Sheets

