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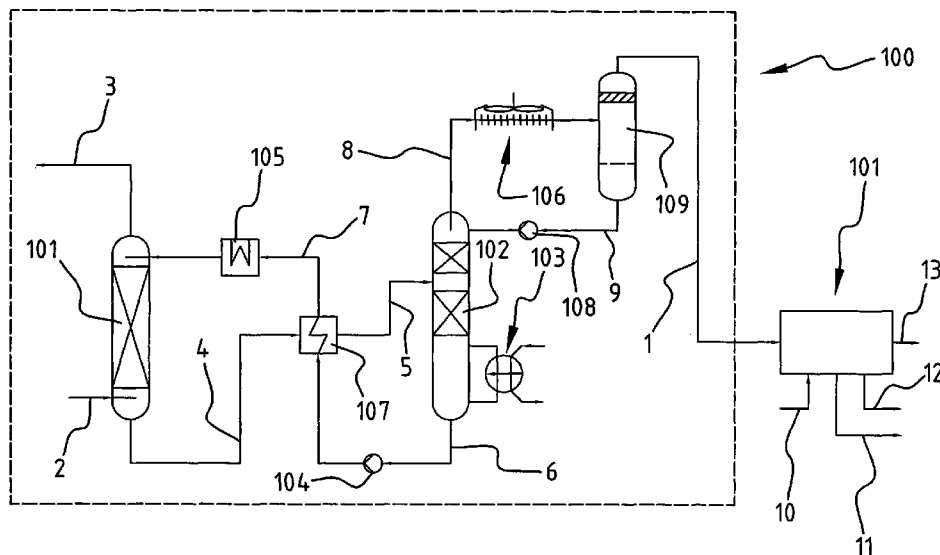


FIG. 1

(57) Abstract: Method for separating a gaseous mixture that comprises as main ingredients H_2S and CO_2 , wherein the gaseous mixture is contacted in a first device with a solvent comprising a weak Lewis-acid, wherein H_2S is absorbed in the solvent and the remaining CO_2 is abducted, and wherein the at least partially saturated solvent is regenerated subsequently, in at least one second device wherein the weak Lewis-acid comprises copper aluminium chloride ($Cu[AlCl_4]$) and wherein the solvent comprises monochlorobiphenyl (MCB).