

Title (en)

ADDING A MALODORANT TO OXYGEN GAS AND SUITABLE LIQUID ODORISING MIXTURE.

Title (de)

ODORIERUNG VON SAUERSTOFFGAS MIT EINER ÜBELRIECHENDEN SUBSTANZ UND DAFÜR GEEIGNETE FLÜSSIGE MISCHUNG.

Title (fr)

ADJONCTION D'UNE SUBSTANCE MALODORANTE A DE L'OXYGENE GAZEUX ET MELANGE LIQUIDE MALODORANT APPROPRIE.

Publication

EP 0533670 B1 19950510 (EN)

Application

EP 90910956 A 19900522

Priority

SE 9000340 W 19900522

Abstract (en)

[origin: WO9117817A1] The invention has regard to a method of adding a malodorant to a consumer gas, such as oxygen, natural gas, propane gas, town gas or some other combustible gas, an odorless, toxic gas or a more or less inert gas distributed to a consumer station for the purpose of warning individuals in the surroundings that there is a risk of fire, explosion, suffocation, toxicity or some other risk due to the presence of consumer gas in the surrounding atmosphere as a result of leakage, negligence or some other reason, said method including the step of mixing a master gas, i.e. a carrier gas diluted with malodorant, with the consumer gas. The characteristic feature of the method comprises dissolving the malodorant in the form of an organic sulphur compound or a mixture of two or more organic sulphur compounds, these compounds comprising tetrahydrothiophene, methyl mercaptan, ethyl mercaptan, propyl mercaptan and butyl mercaptan, dimethyl sulphide, diethyl sulphide and methylethyl sulphide, in condensed carbon dioxide, sulphur hexafluoride or dinitrogen oxide in a pressure vessel, thereby obtaining in the pressure vessel a liquid phase, consisting of a solution of malodorant in the condensed gas, and a gas phase; and removing the liquid phase from the vessel, vaporizing said liquid phase and supplying the resultant vapor phase to the consumer gas, which is distributed to the consumer. The invention also relates to a gas mixture consisting of the malodorant in condensed carbon dioxide, sulphur hexafluoride or nitrous oxide.

IPC 1-7

B01F 3/02

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CPC (source: EP)

B01F 23/12 (2022.01); **C10L 3/006** (2013.01)

Citation (examination)

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- FI 78173 B 19890228 - AGA AB [SE]
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WO 9117817 A1 19911128; AU 6030590 A 19911210; AU 650849 B2 19940707; BR 9008026 A 19930406; DE 69019378 D1 19950614; DE 69019378 T2 19950914; DK 0533670 T3 19951002; EP 0533670 A1 19930331; EP 0533670 B1 19950510; ES 2072441 T3 19950716; JP H05507022 A 19931014; LT 3095 B 19941125; LT IP183 A 19940615; LV 10212 A 19941020; LV 10212 B 19950820; NO 177456 B 19950612; NO 177456 C 20000221; NO 924460 D0 19921119; NO 924460 L 19921119; RU 2041920 C1 19950820

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