

Title (en)

METHOD AND APPARATUS FOR REMOVING ODOROUS SUBSTANCES IN GASES BY HEATING IN A COMBUSTION APPARATUS

Publication

EP 0342365 A3 19900404 (DE)

Application

EP 89106798 A 19890417

Priority

DE 3813092 A 19880419

Abstract (en)

[origin: JPH029415A] PURPOSE: To remove odorous material from gas or vapor with a simple method by feeding the gas or the vapor generating at a processing plant of organic substance to a furnace device of the processing plant, heating higher than a specified temperature and utilizing the heat generated at the furnace by the processing plant. CONSTITUTION: In a malt stock boiling process of e.g. a brewery plant, the vapor incorporating the odorous substance PD generating from the container 1 of a boiling pan, etc., is fed to the furnace device 13 via a vapor collecting hood 2, a vapor condenser 3, and a pipe line 5. Combustion air PL is mixed with the vapor in a mixing room 6, and fuel PE is burned in a combustion room 7. By heating with a flame 8 to at least higher than 400 deg.C, the odorous substance consisting of organic compositions such as alcohol and aldehyde is decomposed and produces non-odorous carbon dioxide and steam to be discharged from a flue duct 9. Energy generated with combustion in the combustion room 7 is fed to a heater device 11 through a connection pipe 10 and is utilized to heat and boil a medium in the container 1.

IPC 1-7

B01D 53/34; **F23G 7/06**

IPC 8 full level

C12G 3/02 (2006.01); **B01D 53/34** (2006.01); **B01D 53/38** (2006.01); **B01D 53/74** (2006.01); **C12C 13/00** (2006.01); **F23G 5/46** (2006.01); **F23G 7/06** (2006.01)

CPC (source: EP US)

F23G 5/46 (2013.01 - EP US); **F23G 7/065** (2013.01 - EP US)

Citation (search report)

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AT BE CH DE FR GB IT LI LU NL

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EP 0342365 A2 19891123; **EP 0342365 A3 19900404**; **EP 0342365 B1 19930630**; AT E91087 T1 19930715; BR 8901835 A 19891128; CN 1037086 A 19891115; DE 3813092 A1 19891109; DE 58904829 D1 19930805; JP H029415 A 19900112; US 5156826 A 19921020

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