

Title (en)

METHOD AND PLANT FOR DISPOSING OF WASTES COMPOSED OF PLASTIC MATERIALS OR BIOMASSES

Title (de)

VERFAHREN UND ANLAGE ZUR ENTSORGUNG VON ABFÄLLEN AUS KUNSTSTOFFMATERIALIEN ODER BIOMASSEN

Title (fr)

PROCÉDÉ ET INSTALLATION D'ÉLIMINATION DE DÉCHETS COMPOSÉS DE MATIÈRES PLASTIQUES OU DE BIOMASSES

Publication

EP 4271766 A1 20231108 (EN)

Application

EP 21847548 A 20211224

Priority

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- IT 2021050426 W 20211224

Abstract (en)

[origin: WO2022144942A1] A pyrolysis plant for the treatment of solid and liquid waste materials is described, comprising: a first section (100), suitable for carrying out a pyrolysis of this solid and liquid waste materials, this pyrolysis producing synthesis gas, syngas, and residual ash; a second section (200) adapted to carry out a separation of the lighter fraction of this ash, coal dust or carbon black, from the syngas, the lighter fraction being transported by the syngas; a third section (300), suitable for carrying out a fractional distillation of the syngas, obtaining the separation of the volatile fraction of the syngas from a bituminous residue, tar; a fourth section (400), adapted to carry out a recycling of the bituminous residue of the fractional distillation, for a further treatment; and a fifth final emergency section, including, in addition to safety pumps which will automatically intervene in the event of a system failure, all safety systems.

IPC 8 full level

C10B 47/30 (2006.01); **C10B 19/00** (2006.01); **C10B 53/02** (2006.01)

CPC (source: EP US)

C10B 7/10 (2013.01 - EP); **C10B 19/00** (2013.01 - EP); **C10B 53/02** (2013.01 - EP); **C10B 53/07** (2013.01 - EP); **C10G 1/02** (2013.01 - EP); **C10G 1/10** (2013.01 - EP); **C10J 3/005** (2013.01 - US); **C10J 3/723** (2013.01 - US); **C10J 3/84** (2013.01 - US); **C10K 1/026** (2013.01 - EP); **C10J 2200/158** (2013.01 - US); **C10J 2300/0946** (2013.01 - US); **C10J 2300/1276** (2013.01 - US); **C10J 2300/1631** (2013.01 - US); **C10J 2300/1656** (2013.01 - US); **C10J 2300/1807** (2013.01 - US)

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