

Title (en)

Apparatus for the purification of a synthesis gas flow obtained from the gasification of refuses and/or biomasses

Title (de)

Vorrichtung zur Reinigung eines bei der Vergasung von Abfallstoffen und/oder Biomasse erhaltenen Synthesegasstroms

Title (fr)

Appareil de purification d'un débit de gaz de synthèse obtenu à partir de la gazéification de déchets et/ou biomasses

Publication

EP 1978074 A1 20081008 (EN)

Application

EP 07007269 A 20070406

Priority

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Abstract (en)

An apparatus (10) for the purification of a synthesis gas flow obtained from the gasification of refuses and/or biomasses, by means of physical removal of solid particles (particulate) and liquid particles (for example, drops of water) therein contained, comprising: a substantially cylindrical shell (12), closed at the opposite ends by respective upper (16) and lower (18) bottoms, a first (20) and a second chamber (22), coaxial, defined in said shell (12) and arranged in substantial mutual alignment, said first chamber (12) having an upper end (20a) closed by said upper bottom (16) and the other lower end (20b) open in the upper open end (22a) of said second chamber (22), the other lower end (22b) of said second chamber (22) being closed by said lower bottom (18), an inlet duct (24) of a synthesis gas flow to be purified, open in said first chamber (20) in a direction substantially tangent to the inner wall (26) thereof, a discharge duct (28) of purified synthesis gas, open in said first chamber (20) through said upper bottom (16), a plate device of particulate-sedimentation (30), supported in said second chamber (22), axially extended therein and having an upper end (32) being in predetermined spaced relationship from the open lower end (20b) of said first chamber (20).

IPC 8 full level

C10J 3/84 (2006.01)

CPC (source: EP)

C10J 3/84 (2013.01); **C10K 1/026** (2013.01); **C10K 1/101** (2013.01); **C10J 2200/09** (2013.01); **C10J 2300/1696** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

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