

Title (en)
A device and method for the gasification of wood

Title (de)
Vorrichtung und Methode zur Vergasung von Holz

Title (fr)
Dispositif et méthode pour la gazéification de bois

Publication
EP 0955350 A1 19991110 (EN)

Application
EP 98830256 A 19980428

Priority
EP 98830256 A 19980428

Abstract (en)
A device and method for the gasification of wood, according to which, inside a reactor (22) housed within an inner casing (4) with vertical axis (2a) and equipped with an oxidation zone (7) located near the base (6) of an outer container (2) containing said inner casing (4), at which a plurality of fluid conveyor elements (8, 8'), supplied with air from an external source (21) and positioned above a zone (9) for the discharge of the gas produced by the reactor (22), are oriented in such a way as to create, in the oxidation zone (7), a gaseous flow (8g) containing the gas, rotating about the longitudinal axis (2a) and moving forwards towards the discharge zone (9), which comprises a diaphragm (13) across the longitudinal axis (2a) and having a discharge hole (14); the diaphragm (13), together with the vertical walls of a lower section (4b) of the inner casing (4), constitutes a transit duct in which the gaseous flow (8g) is intercepted and suddenly diverted towards the discharge hole (14), causing the release of solid particles, which accumulate on the diaphragm (13) and on the inner walls of the lower section (4b), providing them with heat insulation and protecting them from any direct contact with the following gaseous flow (8g). <IMAGE>

IPC 1-7
C10J 3/00; **C10J 3/26**

IPC 8 full level
C10J 3/26 (2006.01)

CPC (source: EP)
C10J 3/26 (2013.01); **C10J 3/487** (2013.01); **C10K 1/024** (2013.01); **C10J 2200/152** (2013.01); **C10J 2300/092** (2013.01); **C10J 2300/1246** (2013.01)

Citation (search report)
• [A] CH 237348 A 19450430 - PORSCHE KG [DE]
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Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0955350 A1 19991110; **EP 0955350 B1 20030702**; AT E244289 T1 20030715; DE 69816033 D1 20030807; DE 69816033 T2 20040603

DOCDB simple family (application)
EP 98830256 A 19980428; AT 98830256 T 19980428; DE 69816033 T 19980428