

Title (en)

Method and plant to gasify solid fuels containing non-combustible meltable materials.

Title (de)

Methode und Vorrichtung zum Vergasen von festen Brennstoffen, enthaltend schmelzbare nicht-brennbare Materien.

Title (fr)

Méthode et installation pour gazéifier des combustibles solides contenant des matériaux fusibles non-combustibles.

Publication

**EP 0532901 B1 19950920 (EN)**

Application

**EP 92113622 A 19920810**

Priority

IT UD910143 A 19910918

Abstract (en)

[origin: EP0532901A1] Method and plant to gasify solid fuels, which are advantageously solid urban wastes, wood wastes and wood chips, solid combustible wastes of an industrial origin, biomasses of an agricultural origin, tyres, peat, lignite, coal and analogous or like materials, the method being obtained with a gasification plant (10) comprising from above downwards a charging silo (11) including a higher portion and a narrower lower portion (26) communicating directly with a vertical furnace (12), the vertical furnace (12) comprising a lower terminal zone (15) connected and joined to an upper terminal zone (16) of a pyrolysis zone (28), which contains at its lower end a system to collect and discharge ashes, the lower terminal zone (15) of the furnace (12) and the upper terminal zone (16) of the pyrolysis zone (28) being connected to a powders separation chamber (13), which is connected to an outlet duct (47) and to an interspace (17) that surrounds the charging silo (11), in which method at least part of the distilled gases generated in the charging silo (11) is recovered in the higher portion of the charging silo (11) and is intensely recycled through ducts (19) from that higher portion of the charging silo (11) to the lower portion (26) of the charging silo (11), whence at least part of the recycled gases is sent to the pyrolysis zone (28) of the furnace (12) through a conduit (27). <IMAGE>

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Cited by

EP2716740A1; KR100659497B1; EP1069174A1; DE4447357A1; DE4447357C2; WO2015058837A1; WO2015090251A1

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