

Title (en)
DEVICE AND METHOD FOR THE DEGASSING OF DUSTS

Title (de)
VORRICHTUNG UND VERFAHREN ZUR ENTGASUNG VON STÄUBEN

Title (fr)
DISPOSITIF ET PROCÉDÉ DE DÉGAZAGE DE CENDRES

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Application
EP 09777501 A 20090729

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Abstract (en)
[origin: CA2731966A1] A device for the degassing of a dust from a synthesis gas which is produced by means of a gasification process, comprising a main dust separator (3), a combination tank (5), means for degassing and cooling, a storage device for dust (17), wherein the synthesis gas which is produced is conducted via a connecting line (1) into a main dust separator (3) from which a dust-free synthesis crude gas flow (2) and a dust-like solid matter (4), which also still comprises synthesis crude gas in the gaps between the dust particles, can be extracted, the dust-like solid matter (4) is conducted into a combination tank (5) which has devices with which said dust-like solid matter (4) can be expanded to a lower pressure level such that a waste gas (19) is obtained and a solid matter remains which contains smaller gas quantities in the gap volume, a transport device is provided for transporting a solid matter (7) into a gas exchange device (21), said gas exchange device (21) comprising a gas exchange tank (10), a dust separator (13), a metering device for exchange gas (11), wherein the gas exchange tank (10) can be expanded to atmospheric pressure, the gas exchange device (21) has an outlet opening for a solid matter which has been at least partially freed from synthesis crude gas, the gas exchange device (21) has an upwardly directed feed device (12) in which an upwardly directed gas and solid matter flow can be generated, the feed device (12) has an open cross section, a lower free opening and an upper free opening, a metering device, which is directed into the lower opening, for exchange gas (11) is arranged below the lower end of the feed device (12), and the dust separator (13) has an extraction device (18) for a waste gas flow and a downwardly directed connection (14) for a solid matter, which has been freed from synthesis crude gas, into the gas exchange tank (10).

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