

Title (en)

METHOD FOR PURIFYING A RAW GAS STREAM AND PURIFICATION DEVICE

Title (de)

VERFAHREN ZUR REINIGUNG EINES ROHGASSTROMS UND REINIGUNGSVORRICHTUNG

Title (fr)

PROCÉDÉ POUR PURIFIER UN GAZ BRUT ET DISPOSITIF DE PURIFICATION

Publication

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Application

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Abstract (en)

[origin: WO2020094183A1] The aim of the invention is to provide a method for purifying a raw gas stream containing water vapour, which method can be carried out simply and economically. This aim is achieved, according to the invention, in that the method comprises the following: feeding the raw gas stream to a reforming zone, in which contaminants contained in the raw gas stream react chemically with the water vapour contained in the raw gas stream, by which means a reformed raw gas stream is obtained; feeding the reformed raw gas stream and an oxidiser stream to an oxidation zone, in which constituents of the reformed raw gas stream react chemically with oxidisers of the oxidiser stream, by which means a pure gas stream is obtained. Optionally, control of the oxygen content is additionally provided. Furthermore, provision is optionally made for the pure gas stream to be fed to a condenser, by means of which the volume flow of the pure gas stream is reduced and/or by means of which energy is recovered and can be used for the oxidiser pre-heating and for other production processes.

IPC 8 full level

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