

Title (en)

A process and apparatus for preparing synthesis gas by partial oxidation of a finely divided solid carbon-containing fuel.

Title (de)

Verfahren und Vorrichtung zur Herstellung von Synthesegas durch partielle Oxidation von feinen Kohlenstoffteilchen enthaltendem Brennstoff.

Title (fr)

Procédé et dispositif de préparation de gaz de synthèse par oxydation partielle de combustible contenant des particules de carbone finement divisées.

Publication

EP 0487157 B1 19950215 (EN)

Application

EP 91202992 A 19911118

Priority

GB 9025077 A 19901119

Abstract (en)

[origin: EP0487157A1] A process and apparatus for preparing synthesis gas by partial oxidation of a finely divided solid carbon-containing fuel. In an upflow entrained gasifier the gases leaving the reactor are cooled in a radiation or convection cooler located above the gasifier. In order to prevent the cooled gases to flow back into the gasifier part a restriction is provided between the gasifier and the cooler above. The gas velocity in the restriction should be at least 2 and maximum 30 times higher than the superficial upward velocity of the gases in the gasifier.

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