

Title (en)

DEVICE FOR THE COMBUSTION IN A FLUIDIZED BED OF LOW-GRADE FUELS, ESPECIALLY BLACK BATT OR BIND

Publication

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Application

EP 84401960 A 19841001

Priority

FR 8316290 A 19831013

Abstract (en)

[origin: US4809620A] An apparatus for the combustion of a poorly combustible fuel in a fluidized bed comprises a vertical front wall through which the poorly combustible fuel is delivered in particulate form and two lateral walls extending rearwardly from the front wall. A fixed grate extends from a front input end towards a rear discharge end between the lateral walls, and the two sides and the front input end of the grate define spaces with the lateral walls and the front wall, respectively. The fixed grate is upwardly inclined over at least a portion of its length from the input end to the discharge end whereby the discharge end is disposed above the input end, and the particulate fuel is delivered to the input end for forming a fluidized bed on the grate. A series of windboxes disposed under the grate along the length thereof blast combustion gas through the grate for fluidizing and burning the fuel while generating ashes moving rearwardly along the fluidized bed to the discharge end, and the discharge end constitutes a weir over which the ashes flow for easy removal. Plane surfaces are arranged in the spaces for supporting heaps of the particulate fuel.

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