

Title (en)

PROCESS AND INSTALLATION FOR PREPARING BINDER-FREE HOT-BRIQUETS

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Application

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Abstract (en)

[origin: ES2001223A6] The present invention relates to a process and apparatus for preparing binder-free hot briquettes for smelting purposes consisting of iron-containing pyrophorous finely divided solids. Before briquetting, the finely divided solids are blown-through by means of a rising oxidating heated gas flow and held in a fluidized bed. During said process the gas flow is controlled in such a way that by oxidation of at least part of the metallic iron the temperature of the finely divided solids is increased to about 450 DEG to 650 DEG C. Subsequently, the solids are briquetted in hot condition. Characteristic for the invention is that there is added to the fluidized bed sensible heat from the outside until oxidation of part of the metallic iron starts, and that the fluidization bed is submitted to the effect of vibrations favoring the conveying of the solids over the fluidized bed.

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