Title (en)

PROCESS FOR PRODUCING SPONGE IRON BRIQUETTES FROM FINE ORE

Title (de)

VERFAHREN ZUM HERSTELLEN VON EISENSCHWAMMBRIKETTS AUS FEINERZ

Title (fr)

PROCEDE DE PRODUCTION DE BRIQUETTES DE FER SPONGIEUX A PARTIR DE FINES DE MINERAI

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9509079A1] The invention relates to a process for producing sponge iron briquettes from fine ore with a maximum grain size of less than 2 mm, preferably less than 0.5 mm, wherein a hot fine ore is fed to a roller press and briquetted by the roller press into sponge iron briquettes. Besides briquettes, the briquetting operation results in compacted fine ore in the gaps between briquette molds as well as ferrous fines in the form of dust. These components are designated as residual fines and are separated from the sponge iron briquettes. The residual fines are then fed to the ferrous fine ore upstream of the briquetting operation. The processing of fine ore has in the past entailed great problems. The invention proposes that after being separated from the sponge iron briquettes the residual fines go directly to a conveyor system which delivers an essentially even and continuous feed of still hot residual fines to the hot fine ore still to be briquetted. The average particle size of the fine ore is smaller than the average grain of the residual fines. This coarsens the material for briquetting, thus concertedly improving the briquetting operation.

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