

Title (en)
Rotary drum furnace and its use.

Title (de)
Drehrohrofen und dessen Verwendung.

Title (fr)
Four rotatif et son utilisation.

Publication
EP 0135078 A2 19850327 (DE)

Application
EP 84108997 A 19840730

Priority
DE 3328709 A 19830809

Abstract (en)
[origin: US4629500A] In a rotary tubular kiln for carrying out gas-solids reactions, comprising an indirectly heated, rotatable reaction tube with inner baffles which is provided with charging and removing devices for solid and gas inlet and outlet lines, the improvement which comprises forming the baffles as a central tube which is sealed on both sides and runs along the total length of the kiln, and a spiral which is tightly connected to the central tube and also to the outer rotatable tube. Lifting blades are uniformly distributed along the inner periphery of the rotatable tube. The kiln is suitable for carrying out oxidation, reduction, chlorination, roasting, decomposition, catalytic, annealing and/or cooling processes, e.g. the conversion of hematite to magnetite or goethite to iron.

Abstract (de)
Die vorliegende Erfindung betrifft einen Drehrohrofen für die Durchführung von Gas-Feststoff-Reaktionen, bestehend aus einem indirekt beheizten, rotierenden und mit Auf- und Abgabevorrichtungen für Feststoffe und Gasein- und ableitungen versehenen Reaktionsrohr mit inneren Einbauten.

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Cited by
US5718844A; EP0651064A1; US5700425A; DE102009027635A1; EP2287203A1

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