

Title (en)
ROTARY FURNACE BURNER

Title (de)
DREHOFENBRENNER

Title (fr)
BRULEUR DE FOUR ROTATIF

Publication
EP 1957867 B1 20130306 (DE)

Application
EP 06828952 A 20061108

Priority
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• DE 102005053819 A 20051111

Abstract (en)
[origin: WO2007054271A1] In order to create a rotary furnace burner, particularly for fine-grained solid fuels such as coal dust with jet air nozzles, which can be adjusted easily and in an effective manner during operation of the rotary furnace for the purpose of changing the divergence angle of the high-speed air jets in order to modify the shape of the flame and for optimizing the burning, the invention provides that the jet air nozzles (20) are fastened to the nozzle openings, which diverge with regard to the burner axis, at the end of jet air tubes (21), and these are to be arranged in an axially parallel and distributed manner around the burner axis, and the air jet tubes (21) are to be placed inside a cooling air ring duct (22) that delimits the coal dust duct (16) in an annularly surrounding manner outside the burner support tube (19) and to mount in a manner that enables them to rotate about the jet air tube axes so that, when the jet air tubes (21) rotate, at the cold end of the burner lance, the divergence of the high-speed air jets and thus the angle of the air jet flow cone can be changed and set in comparison to the coal dust cone.

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