

Title (en)

Microwave kiln for firing ceramic material under pressure

Title (de)

Hochdruckmikrowellenofen zum Brennen von keramischem Material

Title (fr)

Four à micro-ondes pour cuire sous pression des matériaux céramiques

Publication

EP 0985893 A1 20000315 (EN)

Application

EP 99830546 A 19990906

Priority

IT FI980200 A 19980908

Abstract (en)

A microwave kiln for firing ceramic material under pressure comprises a container (2), a box-shaped body (13) made of low-density alumina and rotatable inside the container (2) about a vertical axis, a firing chamber for the ceramic material, consisting of the internal cavity (14) of the box-shaped body (13), a magnetron (28) for generating microwaves and a waveguide (27) for introducing said waves inside the container (2) through an opening (24), means designed to generate a pressure greater than atmospheric pressure inside the container (2); the magnetron (28) and the waveguide (27) being movable along the opening (24) in order to produce a substantially uniform electromagnetic field inside the container (2); elements (15) made of material with a high dielectric loss factor being provided adjacent to the walls of the internal cavity (14) of the box-shaped body (13). <IMAGE>

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F27B 17/02; H05B 6/80

IPC 8 full level

F27B 17/02 (2006.01); **H05B 6/80** (2006.01)

CPC (source: EP)

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Citation (search report)

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