

Title (en)
GRATE FOR FURNACES

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EP 0152520 B1 19881109 (DE)

Application
EP 84109779 A 19840817

Priority
DE 3330637 A 19830824

Abstract (en)
[origin: US4520792A] A grate for use in industrial furnaces wherein rows of elongated grate bars partially overlap each other and the grate bars of each row include neighboring stationary and longitudinally movable grate bars. The undersides of the marginal zones of neighboring grate bars are undulate by exhibiting alternating teeth and tooth spaces which ensures rapid expulsion of solid particles which happen to penetrate between the lateral surfaces of neighboring grate bars when the movable grate bars reciprocate relative to the adjacent grate bars. The flanks of teeth at the undersides of the marginal zones make with the upper sides of the respective grate bars acute angles of between 20 and 50 degrees, and the thickness of each marginal zone above the deepest portion of a tooth space is a small fraction of the thickness of the marginal zone above the top land of a tooth. The lateral surfaces of neighboring marginal zones define cutting edges which comminute the solid particles while the particles are in the process of descending toward the nearest tooth spaces so that they can leave the grate by gravity.

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F23H 17/12

IPC 8 full level
F23H 9/06 (2006.01); **F23H 7/06** (2006.01); **F23H 17/12** (2006.01)

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