

INVENTION PATENT
**GRATE BAR AND GRATE FOR A STEP-GRATE STOKER WITH DIRECTED AIR
COMBUSTION**

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DESCRIPTIVE ABSTRACT

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The invention concerns a grate bar and a grate for a stepped-grate furnace stoker with directed-air combustion. Its principle application is in the field of furnaces for waste conversion units.

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The bar includes a flat part, whose top surface receives the incinerated elements, and that extends into two rear and front ends each forming a return that acts as a support point for the bar. It also includes a longitudinal projection under the flat part, extending at least partially between the rear and front ends. At least one wing is positioned under the flat part, on a first side of the longitudinal projection. In a characteristic manner, this wing has at least one lateral hollow-out which, together with the lateral hollow-out of a wing of a neighbouring bar, forms a passage for channelling air up to the front end of the bar. Thus, the oxidising air is advantageously channelled toward this end.

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The bar can include one or more angular cutting elements or knives, distributed under the flat part, on either side of the longitudinal projection.

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The grate includes at least one bar or a group of three bars. In the second case, the central bar in the group is mobile in relation to the two lateral bars in the group.

Figure 2