INVENTION PATENT

GRATE BAR AND GRATE FOR A STEP-GRATE STOKER

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DESCRIPTIVE ABSTRACT

The invention concerns a grate bar and a grate for a stepped-grate furnace stoker, whose principal application is in the field of furnaces for waste conversion units.

The invention therefore relates, according to a first aspect, to a grate bar for the firebox of an incineration furnace, which includes a flat part whose top surface is used to receive the incinerated elements, and that extends into a rear end and a front end, each forming a return that acts as a support point for the bar. The bar also includes a longitudinal projection located under the flat part, and that extends at least partially between the rear and front ends of the bar.

In a characteristic manner, at least one angled cutting element or knife is located under the flat part, on a first side of the longitudinal projection, whose function is to facilitate the removal of the refractory materials that have accumulated progressively.

Under the flat part, on either side of the longitudinal projection, the bar can include one or more cooling wings, possibly provided with lateral hollow-outs that allow the circulation of air.

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

Figure 2