

Title (en)  
PROCESS AND INSTALLATION FOR THE IGNITION OF A SINTER MIXTURE

Publication  
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Application  
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Abstract (en)  
[origin: WO8102747A1] Method for firing a cintering mixture comprised of a solid fuel and a material to be sintered, in a sintering machine wherein the mixture is introduced in a firing furnace comprising closed front and side walls and a closed cover. Very hot gases generated in the furnace above the material to be sintered heat and ignite the upper surface of said material by radiation and convection. A rapid, uniform and cheap firing is obtained since the gases from the burners operating approximatly in a stoichiometric relationship are introduced in the upper portion of the furnace and since the gas having a high content of oxygen are introduced in the lower portion, so as to provide a hot atmosphere, poor in oxygen in the upper portion of the furnace, and a cold atmosphere rich in oxygen in the lower part of the furnace. In an alternative, there is provided an improvement of the firing method by using a thermally insulated dome for the furnace. Further, devices for implementing the method are disclosed.

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