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Abstract (en)
[origin: WO2005053834A1] The invention relates to a synthesis furnace comprising a furnace chamber that is surrounded by a continuous furnace wall. Said furnace chamber is equipped with a plurality of burners, the exit direction of which points downwards and which are located essentially on one plane, and a plurality of parallel reaction tubes that are arranged in an essentially vertical manner in relation to one another. The reaction tubes are heated externally by the ignited burners. The aim of the invention is to improve the thermal distribution and the global thermal transfer by means of the simplest possible construction and control technology. To achieve this, at least the outer burners (5) that are located in the vicinity of the furnace wall (2) have a burner exit direction (R), which runs at an incline away from the centre of the furnace in relation to the vertical.

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