

Title (en)
CONVECTION FURNACE

Title (de)
KONVEKTIONSOFEN

Title (fr)
FOUR À CONVECTION

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Application
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Abstract (en)
The present invention relates to a convection furnace for the heating of sheet metal. The convection furnace comprises a heating chamber, a fan, and a channel system arranged between the fan and the heating chamber. The fan is configured to draw air from the heating chamber and into the channel system. The channel system comprises at least one heating element and two channel sections extending into a top portion of the heating chamber. Each of the two channel sections comprises at least two arm sections extending alternately across the top portion from opposite sides of the top portion. Each arm section comprises a plurality of nozzles through which air is configured to be reintroduced into the heating chamber. With this arrangement, a fast and uniform heating of a sheet metal may be provided by the convection furnace.

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Citation (applicant)
• US 5660543 A 19970826 - MARKS THOMAS G [US], et al
• US 2676007 A 19540420 - DAVIS ALVIN W

Citation (search report)
• [X] CA 2528915 A1 20070524 - SCHWARTZ EVA [DE]
• [X] EP 0283869 A2 19880928 - KRAMER CARL [DE], et al
• [A] US 5660543 A 19970826 - MARKS THOMAS G [US], et al

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