

Title (en)

SALT BATH FOR NITRIDING OF STEEL WORKPIECES AND ITS RELATED PRODUCTION METHOD

Title (de)

SALZBAD ZUM NITRIEREN VON MECHANISCHEN TEILEN AUS STAHL UND ANWENDUNGSVERFAHREN

Title (fr)

BAIN DE SELS FONDUS POUR LA NITRURATION DE PIECES MECANIQUES EN ACIER, ET UN PROCEDE DE MISE EN OEUVRE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2012146839A1] The invention relates to a molten-salt bath for nitriding mechanical steel parts, essentially consisting of the following (the contents being expressed in wt %): 25 to 60 wt % of alkali-metal chlorides; 10 to 40 wt % of alkali-metal carbonates; 20 to 50 wt % of alkali-metal cyanates; and a maximum of 3 wt % of cyanide ions (formed during the use of the bath), wherein the total of the contents is 100 wt %. Preferably, the bath contains: 25 to 30 wt % of sodium cyanate; 25 to 30 wt % of sodium carbonate and lithium carbonate; 40 to 50 wt % of potassium chlorides; and a maximum of 3 wt % of cyanide ions (formed during the use of the bath), the total of the contents being 100 wt %.

IPC 8 full level

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Citation (examination)

- US 2008099108 A1 20080501 - BAUDIS ULRICH [DE], et al
- US 2013327604 A1 20131212 - HOLLY MICHAEL L [US], et al
- US 4019928 A 19770426 - BEYER HERMANN, et al
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