

Title (en)  
METHOD AND DEVICE FOR THE COOLING OF ARTICLES

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR KÜHLUNG VON ARTIKELN

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE REFROIDISSEMENT D'ARTICLES

Publication  
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Application  
**EP 08759413 A 20080505**

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Abstract (en)  
[origin: WO2008138791A2] The method according to the invention for the cooling of articles (5), in which the articles (5) are introduced into at least one channel (2), through which a first stream (4) of a first coolant flows, the channel (2) being cooled by a second stream (21) of a second coolant (25), is distinguished in that the first stream (4) is fed from a first coolant conveyance unit (3) and the second stream (21) is fed from a second coolant conveyance unit (23). The method according to the invention and the device (1) according to the invention for the cooling of articles (5) allow a simple and effective cooling, in particular an at least partial freezing of the articles (5), in that a second stream (21) of a second coolant (25) can flow through a cooling conduit (20) which is designed such that a cooling of a channel (2), through which a first stream (4) of a first coolant, which carries with it the corresponding articles (5), can flow, can take place. Advantageously, the second stream (21) of a second coolant (25) is a high-purity coolant stream which comprises, in particular, essentially pure liquid nitrogen. High purity is understood in this context to mean, in particular, that the second stream (21) of the second coolant (25) carries with it no articles (5) or remains of articles (5) or other impurities. The cooling conduit (20) thereby remains clean and does not have to be cleaned in a complicated way. Preferably, the second stream (21) of the second coolant (25), after flowing through the cooling conduit (20), is combined with the first stream (4) of the first coolant, for example in that the second stream (21) of the coolant (25) is introduced into the sump (7).

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