

Title (en)
PLATE FREEZER AND METHOD FOR OPERATING A PLATE FREEZER

Title (de)
PLATTENFROSTER UND VERFAHREN ZUM BETREIBEN EINES PLATTENGEFRIERAPPARATS

Title (fr)
PLAQUE DE CONGÉLATION ET PROCÉDÉ POUR FAIRE FONCTIONNER UNE TELLE PLAQUE

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Application
EP 15153146 A 20150130

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Abstract (en)
A plate freezer and a method for operating the plate freezer is disclosed. The plate freezer comprises a stack of freezer plates, each freezer plate having a first and a second surface, surrounding a hollow interior through which a coolant may be circulated, which freezer plates are movably mounted in a frame, wherein each freezer plate comprises at least a first actuator mounted in a first end of the freezer plate and at least a second actuator mounted in a second end of the freezer plate, said actuators being mounted on the first surface of the freezer plate in a first end of the actuator and a second end of the actuator is intended for being brought into contact with to the second surface of an adjacent freezer plate. The actuators are preferably hydraulic actuators. The overall height of a plate freezer having a certain capacity can be reduced, and the time needed for freezing the product is reduced.

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F25D 31/00 (2006.01)

CPC (source: EP)
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Citation (search report)
• [YA] US 4558572 A 19851217 - AOKI SHIGETADA [JP], et al
• [Y] DE 4324192 A1 19950119 - KUEHLAUTOMAT BERLIN GMBH KAB [DE]
• [A] GB 2120766 A 19831207 - JACKSTONE FROSTER LTD
• [A] DE 4411484 A1 19951005 - KUEHLAUTOMAT BERLIN GMBH KAB [DE]
• [A] DE 4412465 A1 19951012 - KUEHLAUTOMAT BERLIN GMBH KAB [DE]
• [A] US 4180987 A 19800101 - MCLAUGHLIN THOMAS P [US]
• [A] GB 2186674 A 19870819 - APV HALL LIMITED

Cited by
US2023121590A1; CN115200280A; US2018051927A1; US10808995B2; US11879684B2; EP3926277A1; WO2024179931A1

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