Title (en)
A method and system for controlling the initiation of a freeze cycle pre-set time in an ice maker

Title (de)
Verfahren und System zur Steuerung der Initiierung einer vorgegebenen Gefrierzykluszeit in einem Eiserzeuger

Title (fr)
Procédé et système permettant de commander l'initiation d'un temps prédéfini de cycle de congélation dans une machine à glaçons

Publication
EP 2778570 A3 20160817 (EN)

Application
EP 14159225 A 20140312

Priority
US 201361793912 P 20130315

Abstract (en)
[origin: EP2778570A2] A novel control logic for an individual cube spray type ice machine. The duration of the freeze cycle is able to adapt to changes in inlet water temperature, changes in ambient air temperature, and the impact of warm temperatures of internal ice making parts within the ice machine due to off cycle periods. This is accomplished through a combination of starting a freeze time period only after the water temperature for the volume of water circulating over the evaporator has reached approximately 32°F, and a freeze time period value that is a function of the refrigerant temperature leaving the condenser at the time where the water reaches approximately 32°F.

IPC 8 full level
F25C 1/04 (2006.01)

CPC (source: EP US)
F25C 1/045 (2013.01 - EP US); **F25C 1/12** (2013.01 - US); F25B 2700/21163 (2013.01 - EP US); F25C 2600/02 (2013.01 - EP US); F25C 2700/14 (2013.01 - EP US)

Citation (search report)
- [XI] JP 2854078 B2 19990203
- [Y] US 5653114 A 19970805 - NEWMAN TODD R [US], et al
- [Y] JP 3071073 B2 20000731

Cited by
EP3425310A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2778570 A2 20140917; **EP 2778570 A3 20160817**; AU 2014201376 A1 20141002; AU 2014201376 B2 20160714; CN 104048459 A 20140917; IN 734DE2014 A 20150619; KR 20140113885 A 20140925; TW 201447203 A 20141216; US 2014260349 A1 20140918

DOCDB simple family (application)
EP 14159225 A 20140312; AU 2014201376 A 20140311; CN 201410099302 A 20140317; IN 734DE2014 A 20140313; KR 20140030926 A 20140317; TW 103109708 A 20140314; US 201414208929 A 20140313