

Title (en)  
Turbo-chill chamber with air-flow booster

Title (de)  
Turbokühlkammer mit Luftströmungsverstärker

Title (fr)  
Chambre de turbo-refroidissement dotée d'un surpresseur de débit d'air

Publication  
**EP 2420769 A3 20140226 (EN)**

Application  
**EP 11173848 A 20110713**

Priority  
US 84927410 A 20100803

Abstract (en)  
[origin: EP2420769A2] An appliance system including an appliance (10) and a turbo-chilling chamber (36) is provided. The turbo-chilling chamber has a main body portion that typically includes: a rigid distal wall (38) surrounding a foodstuff receiving space that accommodates variously sized foodstuffs (beverage containers); a rigid inner wall (174) having at least one aperture along the length thereof and surrounding the foodstuff when the foodstuff is within the foodstuff receiving space; and a rigid intermediate wall (172) between the rigid inner wall and the rigid distal wall that defines a coolant chamber between the rigid distal wall and the rigid intermediate wall and also defines an air cooling channel between the rigid intermediate wall and the rigid inner wall. A fan (170) moves air through the air cooling channel and the at least one aperture and past the foodstuff. A method of turbo-chilling a foodstuff/beverage container/beverage within the turbo-chilling chamber is also provided.

IPC 8 full level  
**F25D 11/02** (2006.01); **F25D 17/06** (2006.01); **F25D 31/00** (2006.01)

CPC (source: EP US)  
**F25D 11/025** (2013.01 - EP US); **F25D 17/062** (2013.01 - EP US); **F25D 31/007** (2013.01 - EP US); **F25D 2400/28** (2013.01 - EP US); **F25D 2500/02** (2013.01 - EP US)

Citation (search report)  
• [XYI] JP S62280569 A 19871205 - TOA NENRYO KOGYO KK  
• [YA] KR 20050041036 A 20050504 - LG ELECTRONICS INC [KR]  
• [YA] US 2010043455 A1 20100225 - KUEHL STEVEN J [US], et al & US 2009302724 A1 20091210 - ALLARD PAUL B [US], et al & US 2009229298 A1 20090917 - ALLARD PAUL B [US], et al  
• [YA] US 2007151284 A1 20070705 - FREESMEIER JON [US], et al  
• [A] US 2010073872 A1 20100325 - PAKRAVAN FARHAD [US]  
• [AP] WO 2011037342 A2 20110331 - LG ELECTRONICS INC [KR], et al  
• [AP] WO 2011043602 A2 20110414 - LG ELECTRONICS INC [KR], et al  
• [A] WO 2010008611 A2 20100121 - GREENBEV LLC [US], et al  
• [A] JP H05288447 A 19931102 - SANDEN CORP  
• [A] JP S641378 U 19890106  
• [A] EP 1684031 A2 20060726 - DELPHI TECH INC [US]

Cited by  
GB2623842A

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