

Title (en)  
APPARATUS FOR AND METHOD OF CHILLING OR HEATING A BEVERAGE

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM KÜHLEN ODER ERWÄRMEN EINES GETRÄNKES

Title (fr)  
APPAREIL ET PROCÉDÉ DE REFROIDISSEMENT OU DE CHAUFFAGE D'UNE BOISSON

Publication  
**EP 3390935 A4 20190731 (EN)**

Application  
**EP 16874946 A 20161219**

Priority  

- US 201514975464 A 20151218
- US 201615203496 A 20160706
- DK 2016050446 W 20161219

Abstract (en)  
[origin: WO2017101957A1] An apparatus for chilling or heating a fluid comprises a preparation surface (90) and a heat-transferring unit (100) positioned beneath the preparation surface and in thermal communication with the preparation surface. The heat transferring unit comprises a first thermally conductive layer (110), a second thermally conductive layer (130) and a thermoelectric element (120) arranged between and in thermal communication with the thermally conductive layers. The preparation surface is adapted to receive a thermally conductive bottom portion of a vessel (50) such that said bottom portion is in thermal communication with the heat-transferring unit when the bottom portion is placed on the preparation surface. The apparatus further comprises a vessel presence sensor to detect the presence of a vessel on the preparation surface. In this way, an apparatus is provided that can chill or heat an amount of beverage in a vessel rapidly to a very cold or hot serving temperature.

IPC 8 full level  
**F25D 31/00** (2006.01); **A47G 23/02** (2006.01); **F25B 21/02** (2006.01)

CPC (source: EP US)  
**F25B 21/02** (2013.01 - US); **F25B 21/04** (2013.01 - EP US); **F25D 27/005** (2013.01 - US); **F25D 31/006** (2013.01 - US); **F25D 31/007** (2013.01 - US); **F25D 31/008** (2013.01 - EP US); **F25B 2321/0212** (2013.01 - EP US); **F25B 2321/023** (2013.01 - EP US); **F25B 2321/0252** (2013.01 - EP US); **F25D 2400/28** (2013.01 - EP US); **F25D 2400/361** (2013.01 - EP US); **F25D 2700/06** (2013.01 - EP US); **F25D 2700/16** (2013.01 - EP US)

Citation (search report)  

- [XI] KR 20060114593 A 20061107 - ORIENCES UNION CO LTD [KR], et al
- [X] KR 100775518 B1 20071109 - TEAM KOREA INC [KR]
- [X] JP 2009248869 A 20091029 - INOUE MTP KK
- See references of WO 2017101957A1

Cited by  
WO2024081057A1

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

DOCDB simple family (publication)  
**WO 2017101957 A1 20170622**; EP 3390935 A1 20181024; EP 3390935 A4 20190731; EP 3390935 B1 20220202; US 2017176096 A1 20170622

DOCDB simple family (application)  
**DK 2016050446 W 20161219**; EP 16874946 A 20161219; US 201615203496 A 20160706