

Title (en)  
A COOLING DEVICE

Title (de)  
KÜHLVORRICHTUNG

Title (fr)  
DISPOSITIF REFRIGERANT

Publication  
**EP 0886750 A1 19981230 (EN)**

Application  
**EP 97915656 A 19970318**

Priority  
• IE 9700018 W 19970318  
• IE 960220 A 19960315

Abstract (en)  
[origin: WO9735155A1] A cooling device (1) comprises four chilling troughs (8) for receiving respective wine bottles (2) for independently cooling the wine bottles (2). A refrigeration circuit (21) maintains an aqueous solution of propylene glycol at approximately 20 DEG C in a reservoir (20). Four circulating pumps (35) independently circulate the aqueous solution from the reservoir (20) through the respective chilling troughs (8). An outlet weir (28) from each chilling trough (8) maintains the level of the aqueous solution in the chilling trough (8) for submerging the wine bottle (2). Four lids (16) close the respective chilling troughs (8). First and second sensors (38, 40) determine when a wine bottle has been placed in one of the chilling troughs (8) and the corresponding lid (16) has been closed. A control circuit (35) in response to the first and second sensors (38, 40) activates the relevant circulating pump (34) for circulating the aqueous solution through the chilling trough (8) for approximately four minutes for chilling the wine bottle (2). The circulating pump (34) is then deactivated and aqueous solution from the chilling trough (8) is drained through the circulating pump (34) to the reservoir (20).

IPC 1-7  
**F25D 31/00**; **F25D 17/02**

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

CPC (source: EP)  
**F25D 17/02** (2013.01); **F25D 31/007** (2013.01); **F25D 2331/803** (2013.01); **F25D 2700/02** (2013.01); **F25D 2700/06** (2013.01)

Citation (search report)  
See references of WO 9735155A1

Cited by  
WO2010149402A1

Designated contracting state (EPC)  
DE ES FR GB IE PT

DOCDB simple family (publication)  
**WO 9735155 A1 19970925**; AU 2304897 A 19971010; DE 69721244 D1 20030528; EP 0886750 A1 19981230; EP 0886750 B1 20030423

DOCDB simple family (application)  
**IE 9700018 W 19970318**; AU 2304897 A 19970318; DE 69721244 T 19970318; EP 97915656 A 19970318