

Title (en)  
COOLING APPARATUS

Publication  
**EP 0514324 A3 19930901 (DE)**

Application  
**EP 92810307 A 19920428**

Priority  
DE 4116216 A 19910517

Abstract (en)  
[origin: EP0514324A2] Between a hardening oven (9) and a quenching bath (11d), a cooling device (1) in the form of a hollow chamber is arranged, which controls the cooling process of the small components dropping through. The plates (3) arranged in the hollow chamber and adjustable with regard to their inclination are connected to a device (4) for temperature control, so that the heat of the small components can be removed or stabilised by means of the plates (3). <IMAGE>

IPC 1-7  
**C21D 1/62**; **C21D 1/53**; **C21D 9/00**

IPC 8 full level  
**C21D 1/00** (2006.01); **C21D 1/53** (2006.01); **C21D 1/62** (2006.01); **C21D 9/00** (2006.01); **F27D 15/02** (2006.01)

CPC (source: EP US)  
**C21D 1/53** (2013.01 - EP US); **C21D 1/62** (2013.01 - EP US); **C21D 9/0018** (2013.01 - EP US); **Y10S 165/92** (2013.01 - EP US)

Citation (search report)

- [A] DE 1583354 B1 19701223 - DEGUSSA
- [A] US 789807 A 19050516 - HOLL FRANZ [DE]
- [A] US 3565409 A 19710223 - BECK JACOB HOWARD

Cited by  
EP1207211A3

Designated contracting state (EPC)  
DE FR GB SE

DOCDB simple family (publication)  
**EP 0514324 A2 19921119**; **EP 0514324 A3 19930901**; DE 4116216 A1 19921119; FI 922196 A0 19920514; FI 922196 A 19921118; JP H05132711 A 19930528; US 5345997 A 19940913

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