

Title (en)  
Flexible adaptive quenching

Title (de)  
Flexible adaptive Abschreckung

Title (fr)  
Trempe flexible et adaptive

Publication  
**EP 0621344 B1 19990616 (DE)**

Application  
**EP 93106451 A 19930421**

Priority  
EP 93106451 A 19930421

Abstract (en)  
[origin: EP0621344A1] To obtain a defined quenching profile in the quenching of metallic workpieces in a liquid bath after a heat treatment, a process is suggested in which the flow velocity of the liquid is adjusted in the region of the workpieces to 10 to 30 m/sec, 0.5 to 1.5 m/sec or 0 m/sec, while at the same time, on the other hand, the liquid volume available for heat exchange is variably adjusted. <IMAGE>

IPC 1-7  
**C21D 1/64**

IPC 8 full level  
**C21D 1/64** (2006.01); **C21D 9/00** (2006.01); **C21D 1/58** (2006.01); **C21D 1/667** (2006.01)

CPC (source: EP)  
**C21D 1/64** (2013.01); **C21D 9/0062** (2013.01); **C21D 1/58** (2013.01); **C21D 1/667** (2013.01)

Cited by  
EP1149923A1; CN109487056A; DE10323737A1; EP2712939A1; US2022106653A1; US6492631B2; US9458519B2

Designated contracting state (EPC)  
AT CH DE ES FR GB IT LI

DOCDB simple family (publication)  
**EP 0621344 A1 19941026; EP 0621344 B1 19990616**; AT E181371 T1 19990715; DE 59309658 D1 19990722

DOCDB simple family (application)  
**EP 93106451 A 19930421**; AT 93106451 T 19930421; DE 59309658 T 19930421