

Title (en)
Wire cooling device

Title (de)
Drahtkühleinrichtung

Title (fr)
Dispositif de refroidissement de fil

Publication
EP 1208924 A3 20030813 (DE)

Application
EP 01127074 A 20011114

Priority
DE 10058369 A 20001124

Abstract (en)
[origin: DE10058369C1] Cooling device comprises a cooling chamber (28) with an inlet (32) and an outlet (33) for the wire (12). The chamber is formed by a cooling sleeve (36) which is closed at one end by a wall (34) penetrated by the wire inlet. A cone sleeve (6) is screwed onto the other end and is penetrated by the wire outlet. A core (10) is screwed into a cylindrical bore (26) and protrudes into the inner cone of the cone sleeve forming an annular chamber (14). An inlet (20) for the cooling medium opens out into a distribution chamber (22) and the outlet (30) for the cooling medium is formed as a lateral opening of the cooling chamber. Preferred Features: The length of the cooling chamber is adjusted using a screw thread and is fixed using a locking nut.
[origin: DE10058369C1] Cooling device comprises a cooling chamber (28) with an inlet (32) and an outlet (33) for the wire (12). The chamber is formed by a cooling sleeve (36) which is closed at one end by a wall (34) penetrated by the wire inlet. A cone sleeve (6) is screwed onto the other end and is penetrated by the wire outlet. A core (10) is screwed into a cylindrical bore (26) and protrudes into the inner cone of the cone sleeve forming an annular chamber (14). An inlet (20) for the cooling medium opens out into a distribution chamber (22) and the outlet (30) for the cooling medium is formed as a lateral opening of the cooling chamber. Preferred Features: The length of the cooling chamber is adjusted using a screw thread and is fixed using a locking nut.

IPC 1-7
B21C 47/26; **B21C 9/00**; **C21D 9/573**; **B21C 3/14**; **B21B 45/02**

IPC 8 full level
B21B 45/02 (2006.01); **B21C 3/14** (2006.01); **B21C 9/00** (2006.01); **B21C 47/26** (2006.01); **C21D 9/573** (2006.01)

CPC (source: EP)
C21D 9/5732 (2013.01)

Citation (search report)

- [DA] DD 210621 A1 19840620 - THAELMANN SCHWERMASCHBAU VEB [DD]
- [A] DE 4009743 A1 19910613 - THAELMANN SCHWERMASCHBAU VEB [DE]
- [DA] DE 2434109 A1 19750206 - MECCANICA DI PRECISIONE SPA
- [A] DE 2604595 A1 19770818 - KLOECKNER WERKE AG
- [A] DE 3130839 A1 19820519 - ORION MACHINERY & ENG [US]
- [A] DATABASE WPI Derwent World Patents Index; AN 1981-75330D [41], XP002241962

Cited by
CN113546970A; CN102009071A

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1208924 A2 20020529; **EP 1208924 A3 20030813**; **EP 1208924 B1 20050209**; AT E288800 T1 20050215; DE 10058369 C1 20020214; DE 50105293 D1 20050317; ES 2236117 T3 20050716

DOCDB simple family (application)
EP 01127074 A 20011114; AT 01127074 T 20011114; DE 10058369 A 20001124; DE 50105293 T 20011114; ES 01127074 T 20011114