

Title (en)  
Induction heating coil.

Title (de)  
Induktionsheizspule.

Title (fr)  
Bobine de chauffage inductif.

Publication  
**EP 0462011 A1 19911218 (FR)**

Application  
**EP 91401572 A 19910613**

Priority  
FR 9007507 A 19900615

Abstract (en)  
[origin: WO9120168A1] A cooling pipe (T) is incorporated in each of the coil's conductors (C1). Current flow in this conductor is split between cords (B1...B12) which remain in thermal contact with the pipe even in transposition or twist areas where the conductor has been particularly intensely deformed. Said conductor has at least one 180 twist between the electrical terminals of the coil. The coil can be used particularly in metallurgy for on the fly heating of the edges of flat materials.

Abstract (fr)  
Un tube de refroidissement (T) est incorporé dans chaque conducteur (C1) de la bobine. Le transport du courant dans ce conducteur est réparti entre des brins (B1...B12) qui restent appliqués en contact thermique contre ce tube même dans des zones de transposition ou de vrillage où ce conducteur a subi des déformations particulièrement intenses. Ce conducteur présente au moins un vrillage d'un demi-tour entre les bornes électriques de la bobine. L'invention s'applique notamment en sidérurgie, pour le chauffage au défilé de rives de produits plats.

IPC 1-7  
**H05B 6/02; H05B 6/42**

IPC 8 full level  
**H05B 6/10** (2006.01); **H05B 6/02** (2006.01); **H05B 6/36** (2006.01); **H05B 6/42** (2006.01)

CPC (source: EP US)  
**H05B 6/104** (2013.01 - EP US); **H05B 6/42** (2013.01 - EP US); **H01F 2038/003** (2013.01 - EP US)

Citation (search report)

- [AD] US 4176237 A 19791127 - BINGEN ROALD [BE]
- [A] FR 2555353 A1 19850524 - CEM COMP ELECTRO MEC [FR]
- [A] FR 1150187 A 19580108 - ASEA AB
- [A] DE 2347592 A1 19740418 - ASEA AB
- [A] FR 1371223 A 19640904 - WESTINGHOUSE ELECTRIC CORP

Cited by  
EP0577468A1; FR2693072A1; US5430274A; US10845438B2

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0462011 A1 19911218; EP 0462011 B1 19940914**; AT E111672 T1 19940915; AU 638147 B2 19930617; AU 8083191 A 19920107; CA 2044656 A1 19911216; CA 2044656 C 20010821; DE 69103969 D1 19941020; DE 69103969 T2 19950119; ES 2060323 T3 19941116; FR 2663490 A1 19911220; FR 2663490 B1 19920911; JP 2934313 B2 19990816; JP H05500729 A 19930212; KR 100222214 B1 19991001; KR 927002594 A 19920904; US 5208433 A 19930504; WO 9120168 A1 19911226; ZA 914570 B 19920325

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**EP 91401572 A 19910613**; AT 91401572 T 19910613; AU 8083191 A 19910613; CA 2044656 A 19910614; DE 69103969 T 19910613; ES 91401572 T 19910613; FR 9007507 A 19900615; FR 9100476 W 19910613; JP 51073991 A 19910613; KR 920700330 A 19920214; US 71519291 A 19910614; ZA 914570 A 19910614