

Title (en)

METHOD AND DEVICE FOR COATING AND SHAPING STRAND-SHAPED METALLIC MATERIAL BY DRAWING

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BESCHICHTEN UND UMFORMEN VON STRANGFÖRMIGEM METALLISCHEM UMFORMGUT MITTELS ZIEHEN

Title (fr)

PROCEDE ET DISPOSITIF D'ENDUCTION ET DE DEFORMATION D'UNE MATIERE METALLIQUE EN FORME DE BARRE A DEFORMER PAR ETIRAGE

Publication

EP 1071525 A1 20010131 (DE)

Application

EP 99920759 A 19990415

Priority

- DE 19817088 A 19980417
- EP 9902750 W 19990415

Abstract (en)

[origin: DE19817088A1] Low pressure and high pressure lubricant chambers are arranged side by side, with drawing dies at the exit. The product (1) is coated with a lubricant using low-pressure and high-pressure lubricant chambers arranged side by side, and is drawn by dies positioned at the exit of these chambers. The lubricant in the low pressure chamber is in a solid to pasty state. The coated product entering into the high-pressure lubricant chamber is subjected to a combined pressure and temperature in such a way that the lubricant in this chamber is in a solid to liquid state. The apparatus includes the lubricant chambers (2, 3), an entry nozzle (4) for the product (1) into the lubricant chamber (2), drawing dies (5, 6), and a unit (7) for supply and pressurization of lubricant (8). The drawing die (5) also serves as an entry nozzle into the lubricant chamber (3).

IPC 1-7

B21C 9/00; **B21C 3/14**

IPC 8 full level

B21C 3/14 (2006.01); **B21C 9/00** (2006.01)

CPC (source: EP KR US)

B21C 3/14 (2013.01 - EP US); **B21C 9/00** (2013.01 - EP KR US)

Designated contracting state (EPC)

AT BE DE ES FR GB IT LU SE

DOCDB simple family (publication)

US 6430980 B1 20020813; AT E232429 T1 20030215; AU 3821599 A 19991108; AU 754440 B2 20021114; CA 2327711 A1 19991028; CN 1296431 A 20010523; DE 19817088 A1 19991028; DE 19817088 C2 20000217; DE 59904278 D1 20030320; EP 1071525 A1 20010131; EP 1071525 B1 20030212; ES 2192847 T3 20031016; JP 2002512125 A 20020423; KR 20010042738 A 20010525; RU 2214876 C2 20031027; WO 9954066 A1 19991028

DOCDB simple family (application)

US 67344200 A 20001130; AT 99920759 T 19990415; AU 3821599 A 19990415; CA 2327711 A 19990415; CN 99804965 A 19990415; DE 19817088 A 19980417; DE 59904278 T 19990415; EP 9902750 W 19990415; EP 99920759 A 19990415; ES 99920759 T 19990415; JP 2000544451 A 19990415; KR 20007011464 A 20001016; RU 2000128664 A 19990415