

Title (en)
ELECTRIC WIRE-COLORING DEVICE

Title (de)
FÄRBEEINRICHTUNG FÜR ELEKTRISCHE LEITUNGEN

Title (fr)
DISPOSITIF DE COLORATION DE FIL ELECTRIQUE

Publication
EP 1638116 B1 20130501 (EN)

Application
EP 04746130 A 20040618

Priority
• JP 2004008628 W 20040618
• JP 2003175257 A 20030619

Abstract (en)
[origin: EP1638116A1] A device for coloring an electric wire, by which the electric wire can be continuously colored without a lowering of work efficiency, is provided. A device 1 for coloring an electric wire includes a delivery roll 12, correction unit 13, slack-absorbing unit 14, coloring unit 15, encoder 17 and control device 19. The delivery roll 12 stretches an electric wire 3 and transfers the electric wire in a longitudinal direction thereof. The correction unit 13 imparts first bias force H1 as friction force having a direction reverse to a transferring direction K of the electric wire to the electric wire 3. The slack-absorbing unit 14 is arranged between the correction unit 13 and the delivery roll 12 and absorbs a slack of the electric wire 3. The coloring unit 15 is arranged between the correction unit 13 and the delivery roll 12 and spouts a coloring agent with a predetermined amount thereof per spouting toward the electric wire 3. The encoder 17 measures transferring length of the electric wire 3. The control device 19 causes the coloring unit 15 to spout the coloring agent on the basis of information from the encoder 17.

IPC 8 full level
H01B 13/34 (2006.01); **H01B 13/012** (2006.01); **B05B 13/02** (2006.01)

CPC (source: EP)
H01B 13/345 (2013.01); **B05B 13/0207** (2013.01)

Citation (examination)
• US 5444466 A 19950822 - SMYCZEK PAUL J [US], et al
• US 5237917 A 19930824 - TRAUT JOSEPH [US], et al

Cited by
EP2243143A4; CN105396724A

Designated contracting state (EPC)
PT SK

Designated extension state (EPC)
LT

DOCDB simple family (publication)
EP 1638116 A1 20060322; EP 1638116 A4 20080528; EP 1638116 B1 20130501; CN 1826666 A 20060830; CN 1826666 B 20101208; JP 2005011706 A 20050113; JP 4477837 B2 20100609; MX PA05013910 A 20060308; PT 1638116 E 20130709; WO 2004114329 A1 20041229

DOCDB simple family (application)
EP 04746130 A 20040618; CN 200480020680 A 20040618; JP 2003175257 A 20030619; JP 2004008628 W 20040618; MX PA05013910 A 20040618; PT 04746130 T 20040618