

Title (en)

CONTINUOUS ELECTROPLATING TEST DEVICE SIMULATING DIFFERENT LINEAR SPEEDS OF BAND STEEL

Title (de)

PRÜFVORRICHTUNG FÜR BANDGALVANIK MIT SIMULATION VON VERSCHIEDENEN LINEAREN GESCHWINDIGKEITEN VON BANDSTAHL

Title (fr)

DISPOSITIF DE TEST D'ÉLECTROPLACAGE EN CONTINU SIMULANT DIFFÉRENTES VITESSES LINÉAIRES D'ACIER EN BANDE

Publication

EP 3156523 A4 20180124 (EN)

Application

EP 14894211 A 20141129

Priority

- CN 201410256977 A 20140611
- CN 2014092599 W 20141129

Abstract (en)

[origin: EP3156523A1] The present invention relates to a continuous electroplating test apparatus capable of simulating different linear velocities of strip steel, characterized in that the test apparatus comprises a supporting underframe, a workbench is arranged on the supporting underframe, a working bath is fixedly arranged on the workbench, the test apparatus also comprises a working electrode system, a transmission shaft, an auxiliary electrode and a specimen working electrode, the transmission shaft is connected with the working electrode system, the auxiliary electrode and the working electrode system are both connected with a rectifier to constitute a closed loop, the specimen working electrode is arranged on the working electrode system, and the high-speed production process of the strip steel is simulated by adjusting the rotation of a motor. The test apparatus can simulate the whole process of continuous production of the strip steel, comprising alkali washing, pickling, electroplating, passivating and other technological processes. The whole process can be simulated, and a certain technological process can also be independently simulated. The simulation tests do not interfere with one another so as to further ensure the accuracy of the tests.

IPC 8 full level

C25D 17/00 (2006.01); **C25D 5/04** (2006.01); **C25D 7/06** (2006.01); **C25D 17/06** (2006.01); **C25D 21/12** (2006.01)

CPC (source: EP)

C25D 5/04 (2013.01); **C25D 17/001** (2013.01); **C25D 21/12** (2013.01); **C25D 7/0614** (2013.01); **C25D 17/06** (2013.01)

Citation (search report)

- [XAI] CN 2327701 Y 19990707 - BAOSHAN IRON & STEEL [CN]
- [A] D R GABE ET AL: "REVIEWS IN APPLIED ELECTROCHEMISTRY NUMBER 49 The rotating cylinder electrode: its continued development and application*", 10 December 1996 (1996-12-10), XP055433108, Retrieved from the Internet <URL:https://link.springer.com/content/pdf/10.1023/A:1003464415930.pdf>
- [A] SHAO WENHUA ET AL: "The Investigation On the Rotating Cathode Experimental Facility used in Sn-plating", CAILIAO BAOHU - MATERIALS PROTEC, WUHAN CAILIAO BAOHU YANJIUSUO, WUHAN, CN, 1985, pages 40 - 42, XP008184138, ISSN: 1001-1560
- See references of WO 2015188597A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3156523 A1 20170419; **EP 3156523 A4 20180124**; **EP 3156523 B1 20190327**; CN 105316739 A 20160210; CN 105316739 B 20171020; WO 2015188597 A1 20151217

DOCDB simple family (application)

EP 14894211 A 20141129; CN 2014092599 W 20141129; CN 201410703122 A 20141129