

Title (en)  
STRAIGHTENING MACHINE AND METHOD FOR OPERATING THE SAME

Title (de)  
RICHTMASCHINE UND VERFAHREN ZUM BETREIBEN EINER SOLCHEN

Title (fr)  
MACHINE À DRESSER ET PROCÉDÉ DE FONCTIONNEMENT D'UNE TELLE MACHINE

Publication  
**EP 3403737 A3 20181128 (DE)**

Application  
**EP 18168224 A 20180419**

Priority  
DE 102017110891 A 20170518

Abstract (en)  
[origin: US2018333758A1] A straightening machine for straightening a metal strip or planar metal parts is provided, having a number of upper straightening rollers 15 which are each mounted at one first and one second bearing location 24, 25 in an upper roller mill 12, and a number of lower straightening rollers 16 are each mounted at one first and one second bearing location 24, 25 in a lower roller mill 14. The upper and lower straightening rollers 15, 16 are disposed such that they form a straightening gap 17 between an inlet 6 and an outlet 7 of the straightening machine 1 to act from above and from below on the metal strip or metal part 10 to be straightened and to guide the latter through the straightening machine 1. The straightening rollers are provided with coupling elements 5, disposed on an end side, for coupling drive shafts of a drive device 2, 3, 4, and are removable from the respective roller mill 12, 14. At least some of the straightening rollers 15, 16 are provided with coupling elements 5 at in each case both ends sides, so as to be able to reverse the straightening rollers 15, 16 within the roller mill 12, 14.

IPC 8 full level  
**B21D 1/02** (2006.01); **B21D 37/02** (2006.01)

CPC (source: CN EP US)  
**B21C 51/00** (2013.01 - CN); **B21D 1/02** (2013.01 - CN EP US); **B21D 3/08** (2013.01 - US); **B21D 37/02** (2013.01 - EP US)

Citation (search report)  
• [XAYI] CN 104226735 B 20160817  
• [X] CN 203235784 U 20131016 - WUHAN GANGSHI HOT ROLLING CO LTD  
• [XI] CN 205217654 U 20160511 - ZHEJIANG SANRUI COPPER IND CO LTD  
• [Y] EP 2712687 A1 20140402 - KOHLER MASCHB GMBH [DE]

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 102017110891 B3 20180712**; CN 108941251 A 20181207; CN 108941251 B 20220107; EP 3403737 A2 20181121;  
EP 3403737 A3 20181128; EP 3403737 B1 20220601; PL 3403737 T3 20221003; US 2018333758 A1 20181122

DOCDB simple family (application)  
**DE 102017110891 A 20170518**; CN 201810486757 A 20180517; EP 18168224 A 20180419; PL 18168224 T 20180419;  
US 201815982258 A 20180517