Title (en)

PROCESS FOR MEASURING AND GRINDING A RAIL HEAD PROFILE

Publication

EP 0235602 B1 19910123 (FR)

Application

EP 87101477 A 19870204

Priority

CH 83786 A 19860228

Abstract (en)

[origin: US4785589A] By means of several measuring sensors (C1 to C6), the distance (h1 to h6) from several generatrices (s1) to s6) of the rail-head profile to a reference base are measured and are compared as actual values with predetermined desired distance values. The grinding heads, which are set to a specific generatrix and which grind a facet at an angle of inclination corresponding to the position of each generatrix, are always lifted off automatically when this facet reaches the position corresponding to the desired distance value in relation to the reference base. Because the distance to a particular generatrix, on which is located the vertex line of two adjacent facets of a pair of facets, is measured as an actual value, any two adjacent facets can be checked simultaneously by means of one and the same measuring sensor (C1 to C6). The two facets of a pair of facets are ground by means of a double grinding head set to the vertex line and having two grinding wheels, the grinding planes of which form a predetermined working angle (alpha) with one another which corresponds to the desired profile. The control of the grinding heads therefore merely involves a simple comparison between desired values and actual values of distances; furthermore, double the number of facets can be checked by means of a specific number of measuring sensors, and consequently the rail profile can be approximated as closely as possible.

IPC 1-7

E01B 31/17

IPC 8 full level

B24B 27/00 (2006.01); **E01B 31/17** (2006.01)

CPC (source: EP US)

E01B 31/17 (2013.01 - EP US)

Cited by

US6033291A; FR3064581A1; US5140776A; EP0624689A3; CN111809463A; DE4200945A1; EP0415105A1; EP0315704A1; US4908993A; EP0501183A1; US5265379A; WO9008012A1; WO0068505A1; WO2018178097A1

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI

DOCDB simple family (publication)

EP 0235602 A2 19870909; **EP 0235602 A3 19881012**; **EP 0235602 B1 19910123**; AT E60383 T1 19910215; CA 1268340 A 19900501; DD 254749 A5 19880309; DE 3767505 D1 19910228; JP S62211402 A 19870917; US 4785589 A 19881122; YU 11987 A 19901231

DOCDB simple family (application)

EP 87101477 A 19870204; AT 87101477 T 19870204; CA 527957 A 19870122; DD 30027487 A 19870227; DE 3767505 T 19870204; JP 4322487 A 19870227; US 94803186 A 19861231; YU 11987 A 19870128