

Title (en)

Molding roll for metal thin plate as catalyst carrier

Title (de)

Prägewalze für dünne Metallplatten als Katalysator-Träger

Title (fr)

Rouleau à moulage pour pièces métalliques minces utilisées comme support de catalyseur

Publication

EP 0945195 B1 20051130 (EN)

Application

EP 99302246 A 19990323

Priority

- JP 7459898 A 19980323
- JP 7459998 A 19980323

Abstract (en)

[origin: EP0945195A2] A molding roll (10) comprises a plurality of plate-like blades (11) having a same shape and including neighboring first blades and second blades respectively, the blades being laminated and center axes of the blades being positioned on the same line, the blades having convex portion forming regions which are formed continuously every constant pitch angle at their outer peripheries, each of the convex portion forming regions constituting one of a roll ridge portion and a roll root portion, the roll ridge portion being protruded outward to form one of the first convex portion and the fourth convex portion, the roll root portion becoming depressed inward to form one of the second convex portion and the third convex portion, the second blades being positioned to be shifted by an integral multiple of the pitch angle relative to the first blades, neighboring convex portion forming regions being aligned along the center axes when the blades are laminated, laminated blades having first columns, which consist of roll ridge portions constituting the first convex portions and roll root portions constituting the third convex portions and are aligned along the center axes, and second columns, which consist of roll root portions constituting the second convex portions and ridge root portions constituting the fourth convex portions and are aligned along the center axes, the first columns and the second columns being arranged alternatively along a peripheral direction of the blades; and a spacer provided between the first and second blades, the spacer creating a clearance to rise up the third convex portions and the fourth convex portions. <IMAGE>

IPC 1-7

B21D 31/04; **B21D 13/04**; **B21D 47/00**

IPC 8 full level

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CPC (source: EP)

B21D 13/04 (2013.01); **B21D 31/04** (2013.01); **F01N 3/281** (2013.01); **F01N 13/18** (2013.01); **F01N 2330/38** (2013.01)

Cited by

CN108655289A; US10175006B2; EP2759352A1; CN103962474A; US10094626B2; US10197337B2; US10982908B2; US10378829B2; US11092387B2; US8336176B2; US9579702B2; US10914527B2; TWI581936B

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