

Title (en)  
SECTIONAL RACK GEAR OF A SCREEN PRINTING MACHINE CAROUSEL

Title (de)  
GETEILTES ZAHNSTANGENGETRIEBE EINES SIEBDRUK-KARUSSELS

Title (fr)  
ENGRENAGE À CRÉMAILLÈRE À PLUSIEURS SECTIONS D'UNE TABLE TOURNANTE D'IMPRESSION PAR SÉRIGRAPHIE

Publication  
**EP 3536501 A1 20190911 (EN)**

Application  
**EP 19160909 A 20190305**

Priority  
PT 11060918 A 20180305

Abstract (en)  
Sectional rack gear for a screen-printing machine carousel, comprising a plurality of gear sections (10), each one in sector shape, wherein each gear section (10) comprises side fittings (9) for engaging with the neighboring sections such that said gear sections, when engaged, form a circumferentially complete gear. The gear sections (10) may be annular sections. The gear teeth are preferably on the outer perimeter of the gear sections. Preferably, the fittings (9) are tongue-groove or dovetail type fittings. The screen-printing machine carousel comprises a base structure (5) wherein, preferably, each of the gear sections is detachably attached. Preferably, the material of the sectional rack gear is more wear-resistant than the material of said base structure (5). The screen-printing machine comprises said carousel and an actuator for rotating said carousel about the screen-printing machine.

IPC 8 full level  
**B41F 15/16** (2006.01); **B41F 15/08** (2006.01)

CPC (source: EP)  
**B41F 15/0863** (2013.01); **B41F 15/16** (2013.01)

Citation (search report)  
• [X1] US 5711216 A 19980127 - TIEMANN GERHARD [DE], et al  
• [X1] US 2006288888 A1 20061228 - WIELAND RAINER [DE]  
• [X1] US 5020430 A 19910604 - HARPOLD CHARLES W [US], et al

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)  
**EP 3536501 A1 20190911**; **EP 3536501 B1 20210929**; BR 102019004177 A2 20190917

DOCDB simple family (application)  
**EP 19160909 A 20190305**; BR 102019004177 A 20190228