

Title (en)
FLAT SCREEN MATERIAL AND SCREEN

Title (de)
FLÄCHIGES SIEBMATERIAL UND SIEB

Title (fr)
MATÉRIAU DE TAMISAGE PLAT ET TAMIS

Publication
EP 2879882 B1 20181219 (DE)

Application
EP 13728975 A 20130612

Priority
• DE 102012011901 A 20120614
• EP 2013001723 W 20130612

Abstract (en)
[origin: WO2013185916A2] The invention relates to a flat screen material (1) for use in screen printing, having strands (5, 5.1, 5.2) forming a woven screen structure, said strands being arranged at an angle to each other and crossing at intersection points (10), wherein at said intersection points the strands (5, 5.1, 5.2) form undercuts (11) and otherwise form a screen structure having openings and, at least at the surfaces thereof, consist of metal (3) which was deposited on the strands (5, 5.1, 5.2) in a galvanising process. According to the invention, in the region of the intersection points of the strands (5, 5.1, 5.2), the undercuts (11) thereof have at least in some cases a filling (12) of the metal applied during the galvanising process. This filling can form in particular an inner edge-transition with a rounding (12.1). The fillings improve the properties of the screen material in particular in respect of stability, flow-through and cleaning options. The invention also relates to a screen (4) for rotary screen printing made of such a flat screen material (1).

IPC 8 full level
B41N 1/24 (2006.01); **B07B 1/18** (2006.01); **B07B 1/46** (2006.01)

CPC (source: EP US)
B41F 15/34 (2013.01 - US); **B41F 15/36** (2013.01 - EP US); **B41N 1/247** (2013.01 - EP US)

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)
WO 2013185916 A2 20131219; WO 2013185916 A3 20140220; CN 104364088 A 20150218; CN 104364088 B 20160706;
DE 102012011901 A1 20131219; DK 2879882 T3 20190318; EP 2879882 A2 20150610; EP 2879882 B1 20181219; ES 2711556 T3 20190506;
JP 2015527215 A 20150917; JP 6157604 B2 20170705; US 2015096451 A1 20150409; US 9333740 B2 20160510

DOCDB simple family (application)
EP 2013001723 W 20130612; CN 201380031494 A 20130612; DE 102012011901 A 20120614; DK 13728975 T 20130612;
EP 13728975 A 20130612; ES 13728975 T 20130612; JP 2015516507 A 20130612; US 201414569991 A 20141215