

Title (en)
APPARATUS FOR CLEANING THE TRANSPARENT ENDLESS BELT FOR RAPID UV POLYMERIZATION OF THE PAINT THAT COATS PRODUCTS WITH A MAINLY FLAT SURFACE

Title (de)
VORRICHTUNG ZUR REINIGUNG DES TRANSPARENTEN ENDLOSBANDES ZUR SCHNELLEN UV-POLYMERISATION VON FARBE ZUR BESCHICHTUNG VON PRODUKTEN MIT MEHRHEITLICH FLACHER OBERFLÄCHE

Title (fr)
APPAREIL DE NETTOYAGE DE LA COURROIE SANS FIN TRANSPARENTE POUR LA POLYMERISATION UV RAPIDE DE LA PEINTURE QUI RECOUVRE DES PRODUITS PRÉSENTANT UNE SURFACE SENSIBLEMENT PLATE

Publication
EP 2944384 B1 20171227 (EN)

Application
EP 15167032 A 20150508

Priority
IT BO20140281 A 20140512

Abstract (en)
[origin: EP2944384A1] Apparatus for cleaning the descending branch (102) of an endless transparent belt (2) for rapid UV catalysis of the paint that coats panels (P) made of wood or another material or other products with a mainly flat surface, characterised by the sequence, from top to bottom, of at least the following means: - a first upper reverse roller (10) that involves the descending transparent belt (102) for the entire transverse extension thereof and a first bar (13) for dispensing into the upper inlet formed by this reverse roller and by the transparent belt (102) an amount of solvent useful for diluting the paint to be removed, this first reverse roller (10) having features such as to distribute the solvent evenly on the belt (102) and to perform thereon a first rubbing action also useful to detach the paint, to spread it and to make it more easily and rapidly reactive to the action of the solvent and to distribute this diluted paint over a wide extension of the transparent belt (102); - at least a first doctor blade (19) that involves the transparent belt (102) for the entire transverse extension thereof and that forms with the upper section of this transparent belt an obtuse angle, all so that with the combined action of scraping and gravity this doctor blade (19) collects and removes all the solvent and diluted paint coming from said first upper reverse roller (10); - a second upper reverse roller (10') that involves the transparent belt (102) for the entire transverse extension thereof, to subject it to a substantial cleaning action; - a bar (13') combined with the second reverse roller (10') for dispensing further solvent into the upper inlet formed by this reverse roller (10') and by the transparent belt (102), all to perform a second mechanical operation of rubbing and of cleaning the transparent belt and of diluting any residual fluid paint, there being provided after these means, - at least a second doctor blade (19') that touches the belt (102) for the entire transverse extension thereof and that forms an obtuse angle with the upper section of this transparent belt (102), to collect and remove all the solvent and any traces of greatly diluted paint and therefore easily and totally removable and to then perform a substantial drying operation of this transparent belt (102).

IPC 8 full level
B05D 3/06 (2006.01); **B05D 1/42** (2006.01); **B05D 7/06** (2006.01); **B08B 1/20** (2024.01)

CPC (source: EP)
B05D 1/42 (2013.01); **B05D 3/067** (2013.01); **B05D 7/06** (2013.01); **B08B 1/20** (2024.01); **B08B 1/34** (2024.01)

Cited by
CN116871102A; CN114311756A; CN117070242A

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)
EP 2944384 A1 20151118; EP 2944384 B1 20171227; ES 2659057 T3 20180313

DOCDB simple family (application)
EP 15167032 A 20150508; ES 15167032 T 20150508