

Title (en)
Apparatus and process for curing and hardening lacquer

Title (de)
Verfahren und Vorrichtung zum Vernetzen und Härten von Lack

Title (fr)
Appareil et procédé pour réticuler et durcir une peinture

Publication
EP 0930104 B1 20050406 (DE)

Application
EP 98123022 A 19981207

Priority
DE 19754633 A 19971209

Abstract (en)
[origin: DE19754633A1] An optical system consisting of a prism (32) and a lens (26) is supported on a plate (34) which is rotatable about its vertical axis (A) and mounted on a platform (20') providing adjustment of vertical elevation, focuses a beam of monochromatic ultra violet light, generated by a laser (14) on to a varnish coated substrate (10). The wavelength is 190-250 nanometres and coating thickness is not less than 50 microns e.g. cross linking is achieved after 10 x 45 mJ laser pulses at 1 Hz and allows a work advancement rate of 6m per second for irradiation of 10 x 20 mm area items.

IPC 1-7
B05D 3/06; B29C 35/08

IPC 8 full level
B05D 3/06 (2006.01)

CPC (source: EP)
B05D 3/067 (2013.01)

Citation (examination)
WO 9633872 A1 19961031 - METRONIC GERAETEBAU [DE], et al

Designated contracting state (EPC)
CH DE ES FR GB IT LI NL

DOCDB simple family (publication)
DE 19754633 A1 19990610; DE 59812712 D1 20050512; EP 0930104 A2 19990721; EP 0930104 A3 20021002; EP 0930104 B1 20050406; ES 2239378 T3 20050916

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