

Title (en)
ROTARY UV CURING METHOD AND APPARATUS

Title (de)
UV-ROTATIONSHÄRTUNGSVERFAHREN UND -VORRICHTUNG

Title (fr)
PROCEDE ET APPAREIL DE SECHAGE UV PAR ROTATION

Publication
EP 1704169 A1 20060927 (EN)

Application
EP 04801056 A 20041116

Priority

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- US 75394704 A 20040107

Abstract (en)
[origin: WO2005068511A1] An improved rotary UV curing method and apparatus (20) is provided to more effectively polymerize and cure an UV curable product, article, ink coating or adhesive in or on a disk (16). The rotary UV curing method and apparatus has a special arrangement that provides for rotational movement between an array (12) of UV-LED chips (14) mounted on a panel (10) attached to cantilever base (15) and a UV curable disk or other UV curable product on support pad (22), rotated by shaft (24) and motor (26) to better cure the UV photoinitiators in disk and product. Dispenser (30) may apply liquid (32 or 38) via point (34) to the disc. One or more shields (28) can also be provided to protect the UV-LED chips from splatter or other objects which could otherwise damage or decrease the light emission, intensity and effectiveness of the UV-LED chips.

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