

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 May 2002 (23.05.2002)

PCT

(10) International Publication Number
WO 02/40806 A2

(51) International Patent Classification⁷: **E04F**

(21) International Application Number: PCT/US00/30137

(22) International Filing Date:
14 November 2000 (14.11.2000)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **LU, Eric, Chia-Chun** [US/US]; No. 3583 Briargrove Lane, Dallas, TX 75287 (US).

(71) Applicant and

(72) Inventor: **LU, Chia-Lung** [CN/CN]; Suite 5, 4th floor, No. 187 Dade 2nd Road, Gangshan Jen, Kaohsiung 820 (CN).

(74) Agents: **KENNEY, J., Ernest** et al.; Bacon & Thomas, PLLC, 625 Slaters Lane, 4th Floor, Alexandria, VA 22314 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

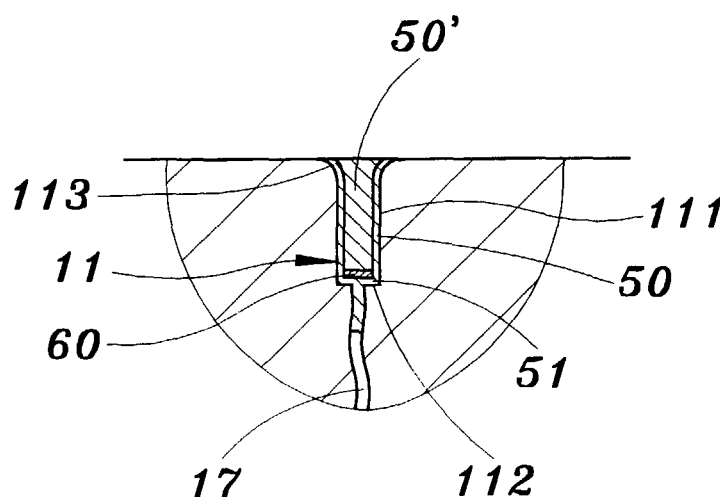
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESSES OF FINISHING SLITS OF SURFACE LAYER OF AIRPLANE RUNWAY



(57) Abstract: A process is designed to finish all slits of the surface layer of an airplane runway. The process involves a first step in which a slit is heated such that the surface of the slit is dry, and that the capillary holes of the slit are opened up. The surface of the slit is then provided with a coating of an asphalt synthetic agent. The coating is subsequently heated to cause the molecules of the asphalt synthetic agent to diffuse into the capillary holes of the slit, thereby preventing the water from finding its way into the gradation layer of the runway. In the meantime, the slit is provided with a soft interface capable of preventing the water from finding its way into the slits of the surface layer of the runway. The soft interface is securely attached to the slits regardless of the climatic changes.