

[54] METHOD AND DEVICE FOR THE UNIFORMLY EVEN APPLICATION OF A RESIN COATING ON A SUBSTRATE

[75] Inventor: Gilbert Cavazza, Viuz-en-Sallaz, France

[73] Assignee: Société Anonyme dite: Sulzer Electro-Technique "S.E.T.", Saint-Jeoire, France

[21] Appl. No.: 407,362

[22] Filed: Sep. 14, 1989

[30] Foreign Application Priority Data

Sep. 15, 1988 [FR] France ..... 88 12045

[51] Int. Cl.<sup>5</sup> ..... B05D 3/12; B05C 11/02

[52] U.S. Cl. .... 427/240; 118/52; 437/231; 427/336; 427/377

[58] Field of Search ..... 427/240, 377, 336; 118/52; 437/231

[56] References Cited

U.S. PATENT DOCUMENTS

2,632,725	3/1953	Marks et al.	427/240
4,068,019	1/1978	Boeckl	427/240
4,075,974	2/1978	Plows	118/52
4,086,870	5/1978	Canavello et al.	118/52
4,587,139	5/1986	Hagan	427/240

OTHER PUBLICATIONS

Apparatus for Preventing Rebounding of Spinner, Patent Abstract of Japan, vol. 11, No. 259, Aug. 21, 1987.

Spinner, Patent Abstract of Japan, vol. 9, No. 230, Sep. 17, 1985.

Coating Device, Patent Abstracts of Japan, vol. 9, No. 318, Dec. 13, 1985.

"Controlled Gap Photoresist Spinning Process" in IBM Tech. Disclosure Bulletin, vol. 17, No. 11, Apr. 1975.

Primary Examiner—Janyce Bell

Attorney, Agent, or Firm—Marshall, O'Toole, Gerstein, Murray & Bicknell

[57] ABSTRACT

Method and device for the uniformly even application of a resin coating on a substrate, wherein it comprises a rotary plate (1) receiving the substrate (3) and provided with means for rendering the substrate stationary on the plate so that rotation of the plate (1) provokes the spreading of a thin coating of the resin over the surface of the substrate. A concentric cover (3) is superimposed on the circular plate (1) and provokes the rotation of this cover along with the plate by confining the gaseous volume constituted by a suspended solvent preserving the properties of the dissolved resin during the spreading cycle constituting the internal atmosphere in which the substrate is placed, this volume being driven in rotation approximately synchronous with the plate and the cover.

10 Claims, 2 Drawing Sheets

