

- [54] SPIN COATING PROCESS FOR PREVENTION OF EDGE BUILDUP
- [75] Inventor: Richard Stefan Boeckl, San Jose, Calif.
- [73] Assignee: International Business Machines Corporation, Armonk, N.Y.
- [21] Appl. No.: 739,756
- [22] Filed: Nov. 8, 1976
- [51] Int. Cl.² B05D 5/12; B05C 13/02
- [52] U.S. Cl. 427/82; 118/52; 118/506; 427/240
- [58] Field of Search 118/52, 506, 56, 54, 118/500; 427/240, 241, 82; 297/1 C

[56] References Cited

U.S. PATENT DOCUMENTS

3,323,491 6/1967 Granick 118/506

FOREIGN PATENT DOCUMENTS

A54,387 9/1949 France 118/52

OTHER PUBLICATIONS

IBM Technical Disclosure Bulletin, Evaporation Water Carrier, T.A. Gunter et al., vol. 14, No. 12, May 1972, pp.3693-3694.

IBM Technical Disclosure Bulletin, Spin Coating Photoresist, P.W. Reed et al., vol. 16, No. 5, Oct. 1973, pp. 1535-1536.

IBM Technical Disclosure Bulletin, Controlled Gap Photoresist Spinning Process, J.E. Holihan, Sr. and L.Landstein, vol. 17, No. 11, Apr. 1975, p. 3281.

Primary Examiner—James Kee Chi

Attorney, Agent, or Firm—James A. Pershon

[57] ABSTRACT

A spin coating process produces a constant film thickness across a planar substrate by placing a frame around the substrate boundary to act as an auxiliary surface to allow a continuous film of the fluid to be spin coated. The auxiliary surface is elevated with respect to the plane of the substrate surface.

8 Claims, 4 Drawing Figures

