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Matou

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[54] METHOD AND APPARATUS FOR FORMING FILM ON SURFACE OF DISK

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[30] Foreign Application Priority Data

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320, 323, 300				

[56] References Cited

U.S. PATENT DOCUMENTS

4,650,064 3/1987 Slabaugh 118/73(4) 4,806,455 2/1989 LaBianca 427/42 4,951,604 8/1990 Temple et al. 118/73(5) 5,079,043 1/1992 Lambert 427/42		4,806,455 4,951,604	37 10/1982 55 11/1985 30 1/1986 54 3/1987 55 2/1989 94 8/1990	LaBianca Temple et al	427/425 427/128 118/52 118/730 427/425 118/730	i
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5,094,884	3/1992	Hillman et al.	 118/52

FOREIGN PATENT DOCUMENTS

59-139959	8/1984	Japan .	
421551	8/1984	Japan .	
88824	4/1988	Japan	118/320
261532	10/1988	Japan .	

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[57] ABSTRACT

A disk body (1) is arranged so that a portion of the coating forming surface thereof exists over a spray region A of a substantially circular cross-section made by a nozzle (10) for production of super fine particles to spray a coating forming agent, and the coating forming agent is sprayed while the disk body (1) is being rotated about the center thereof. The section near the peripheral edge of the disk body (1) passes through the section near the center of the spraying region where the density of fine particles is higher; however the passing speed thereof is fast, so the deposit efficiency of fine particles per unit area of the disk body (1) is lower, while the section near the center of the disk body (1) passes through the section near the peripheral edge of the spray region where the density of fine particles is lower; however, the passing speed thereof is slow, so the deposit efficiency of fine particles per unit area of the disk body is higher. This makes the amount of the fine particles which sticks to and accumulates on the disk body (1) uniform in the radial direction of the disk.

9 Claims, 12 Drawing Sheets

