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United States Patent [19]
Davis

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[54] **SPIN COATING SPINDLE AND CHUCK ASSEMBLY**

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[57] **ABSTRACT**

[21] Appl. No.: **08/667,785**

An apparatus and methods for use in spin coating a coating material onto a wafer. The apparatus includes a rotatable chuck capable of supporting the wafer and a bowl having a bottom and a side defining an interior region, the bottom containing an opening through which said rotatable chuck is movable and separable from the bowl. In a preferred embodiment the bottom has a raised cylindrical portion containing the opening and, the rotatable chuck is positioned within the opening so that the wafer is in close proximity to the raised portion of the bowl so as to prevent solvent vapors from escaping the bowl through the opening.

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[51] **Int. Cl.**⁶ **B05C 13/00**

[52] **U.S. Cl.** **118/500; 118/52; 118/56; 118/728; 118/730**

[58] **Field of Search** 118/728, 730, 118/52, 56, 319, 320, 500; 427/240, 425; 134/902

[56] **References Cited**

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13 Claims, 8 Drawing Sheets

