



US005174825A

United States Patent [19]

[11] Patent Number: **5,174,825**

White, Jr. et al.

[45] Date of Patent: **Dec. 29, 1992**

[54] **UNIFORM GAS DISTRIBUTOR TO A WAFER**

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[21] Appl. No.: **571,950**

[22] Filed: **Aug. 23, 1990**

[51] Int. Cl.⁵ **C23C 16/00**

[52] U.S. Cl. **118/715; 118/728; 239/590.3**

[58] Field of Search **118/715, 728; 204/298.07, 298.33; 239/504, 590, 590.3; 156/345**

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[57] **ABSTRACT**

A gas distribution system **140** includes a gas distribution chamber **142** and a gas distributor **154**. Gas distribution chamber **142** includes an open end **144** and a closed end **146**. A workpiece **148** is disposed adjacent closed end **146**. Gas distributor **154** includes an outer collar **156** and an inner collar **158**. Inner collar **158** has a continuously increasing cross-sectional diameter from a first predetermined point **160** to a second predetermined point **162**. Gases are introduced through an inlet tube **150** disposed through an aperture in a platform **152** into the interior of inner collar **158** and toward workpiece **148**. A diverter **164** diverts incoming gases from inlet tube **150**.

[56] **References Cited**

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35 Claims, 3 Drawing Sheets

