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#531/537, Avinashi Road, Peelamedu, Coimbatore 641004 (IN).

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(74) Agent: **STEVENS, Joseph J.** et al.; PATTERSON + SHERIDAN, LLP, 24 Greenway Plaza, Suite 1600, Houston, Texas 77046 (US).

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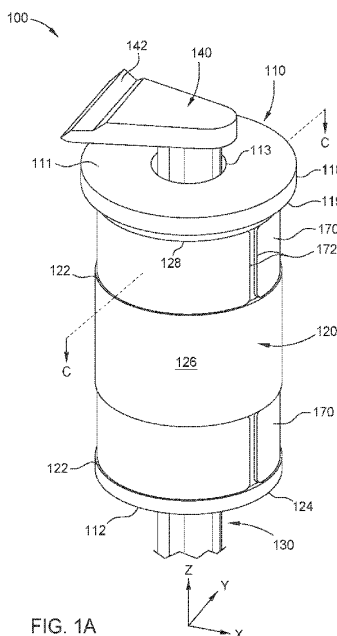
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(71) Applicant: **APPLIED MATERIALS, INC.** [US/US];
3050 Bowers Avenue, Santa Clara, California 95054 (US).

(72) Inventors: **GOVINDASAMY, Sathiyamurthi**; Applied Materials India Private Limited, Mayflower Signature, Module A & C, 6th Floor; #531/537, Avinashi Road, Peelamedu, Coimbatore 641004 (IN). **PENMETHSA, Harish V.**; c/o Applied Materials, Inc., Law Dept., M/S 1269, 3050 Bowers Avenue, Santa Clara, California 95054 (US). **PALANISAMY, Suresh**; Applied Materials India Private Limited, Mayflower Signature, Module A & C, 6th Floor;

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(54) Title: SUBSTRATE SUPPORT ASSEMBLY



(57) Abstract: A support assembly for supporting a substrate in a processing station includes a housing, a pin, a plurality of bearing elements, and a retaining member. The housing includes a bore, a groove formed on an exterior surface of the housing, and a plurality of windows disposed in the groove that intersect the bore. The pin is disposed in the bore and moveable between a retracted position and an extended position. The pin includes a shaft including a plurality of bearing surfaces. The plurality of bearing elements are at least partially disposed in a corresponding window. Each bearing element includes an outer surface configured to engage a corresponding bearing surface of the shaft. The plurality of bearing elements and bearing surfaces cooperate to maintain an angular orientation of the pin as the pin moves between the retracted position and the extended position. The retaining member is disposed in the groove.

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