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(71) 申请人: 盛美半导体设备(上海)股份有限公司 (ACM RESEARCH (SHANGHAI), INC.) [CN/CN]; 中国上海市中国(上海)自由贸易试验区蔡伦路1690号第4幢, Shanghai 201203 (CN)。

(72) 发明人: 王晖 (WANG, Hui); 中国上海市中国(上海)自由贸易试验区蔡伦路1690号第4幢, Shanghai 201203 (CN)。 王坚 (WANG, Jian); 中国上海市中国(上海)自由贸易试验区蔡伦路1690号第4幢, Shanghai 201203 (CN)。 贾照伟 (JIA, Zhaowei); 中国上海市中国(上海)自由贸易试验区蔡伦路1690号第4幢, Shanghai 201203 (CN)。 金一诺 (JIN, Yinu); 中国上海市中国(上海)自由贸易试验区蔡伦路1690号第4幢, Shanghai 201203 (CN)。 杨宏超 (YANG, Hongchao); 中国上海市中国(上海)自由贸易试验区蔡伦路1690号第4幢, Shanghai 201203 (CN)。

(74) 代理人: 上海专利商标事务所有限公司 (SHANGHAI PATENT & TRADEMARK LAW)

(54) Title: CUP-SHAPED CHUCK OF SUBSTRATE HOLDING DEVICE, AND SUBSTRATE HOLDING DEVICE

(54) 发明名称: 基板保持装置的杯形夹盘及基板保持装置

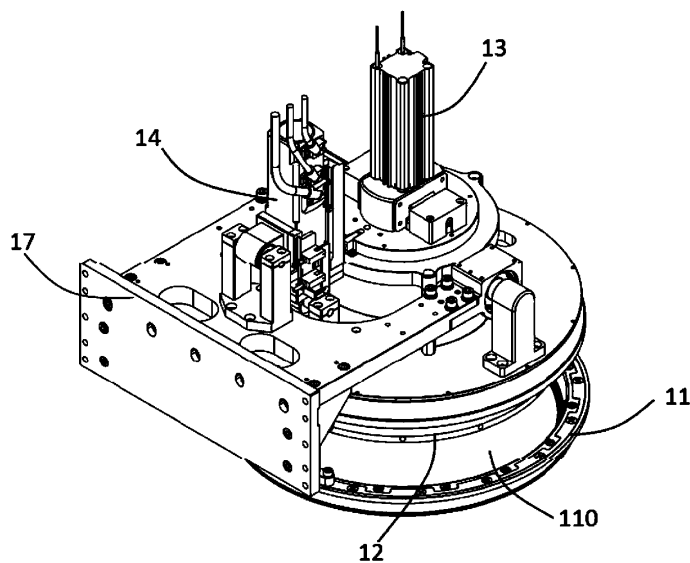


图1

(57) Abstract: Disclosed in the present invention is a cup-shaped chuck of a substrate holding device. The cup-shaped chuck comprises an inner pressing ring, a middle frame, a sealing member, an outer pressing ring and a contact ring. The inner pressing ring is locked on the inner peripheral surface of the middle frame. The sealing member has an outer end part, a bottom part and an inner end part; the outer end part of the sealing member covers the outer peripheral surface of at least part of the middle frame; the bottom part of the sealing member covers the bottom part of the middle frame, and is exposed at the outside of the cup-shaped chuck; the inner end part of the sealing member covers the inner peripheral surface of the at least part of the middle frame; the inner end part of the sealing

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OFFICE, LLC); 中国上海市桂平路 435 号,
Shanghai 200233 (CN)。

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member is pressed between the inner pressing ring and the middle frame by means of the inner pressing ring; the outer pressing ring is made of an insulating material and is locked on the outer peripheral surface of the middle frame, and the outer end part of the sealing member is pressed between the outer pressing ring and the middle frame by means of the outer pressing ring; the contact ring is located above the sealing member and is pressed between the inner pressing ring and the middle frame, and a sealing ring is provided between the inner pressing ring and the contact ring.

(57) 摘要: 本发明揭示了基板保持装置的杯形夹盘, 包括内压环、中间骨架、密封件、外压环和接触环。内压环锁紧在中间骨架的内周面。密封件具有外端部、底部和内端部, 密封件的外端部包覆至少部分中间骨架的外周面, 密封件的底部包覆中间骨架的底部, 并暴露于杯形夹盘的外部, 密封件的内端部包覆至少部分中间骨架的内周面, 通过内压环将密封件的内端部压紧在内压环和中间骨架之间。外压环采用绝缘材料, 锁紧在中间骨架的外周面, 并通过外压环将密封件的外端部压紧在外压环与中间骨架之间。接触环位于密封件之上, 并压接在内压环和中间骨架之间, 内压环与接触环之间设置有密封圈。