Claims

1. A cleaning device for cleaning washware, comprising at least one cleaning chamber with at least one application device for applying at least one cleaning liquid to the washware in the cleaning chamber, furthermore comprising at least one transportation device for transporting the washware through the cleaning chamber in a transportation direction, wherein the cleaning device has at least one outlet region, which is arranged downstream of the cleaning chamber in the transportation direction, for removing the washware from the transportation device, wherein the cleaning device furthermore has at least one sensor for identifying at least one prespecified type of washware, wherein the cleaning device furthermore has at least one slide and is designed to automatically push the washware of the prespecified type from the transportation device transversely to the transportation direction.

2. The cleaning device as claimed in claim 1, furthermore comprising at least one receiving device which is arranged next to the transportation device transversely to the transportation direction, wherein the cleaning device is designed to push the washware of the prespecified type onto the receiving device by means of the slide.

3. The cleaning device as claimed in claim 2, wherein the washware of the prespecified type can be stacked in the receiving device.

4. The cleaning device as claimed in one of claims 2 or 3, wherein the cleaning device furthermore has at least one guide, wherein the guide is designed to feed the washware of the prespecified type to the receiving device with a prespecified orientation.

5. The cleaning device as claimed in claim 4, wherein the guide is designed to turn the washware of the prespecified type from a first orientation on the transportation device to a second orientation in the receiving device.

6. The cleaning device as claimed in one of claims 1 to 5, wherein the transportation device has at least one device selected from the group consisting of: a conveyor belt; a transportation chain; a roller transportation device; a pawl drive.

7. The cleaning device as claimed in one of claims 1 to 6, wherein the washware of the prespecified type comprises trays.

8. The cleaning device as claimed in claim 7, wherein the transportation device is designed to receive the trays with a non-parallel orientation in relation to a plane of the transportation device.

9. The cleaning device as claimed in claim 8, wherein the transportation device has at least one of a conveyor belt and a link chain, wherein the transportation device has a plurality of receiving fingers, wherein the trays can be inserted into the receiving fingers at an angle of from 60° to 120° in relation to a plane of at least one of the conveyor belt and the link chain, wherein the trays can be inserted into the receiving fingers transversely to the transportation direction.

10. The cleaning device as claimed in one of claims 7 to 9, wherein the cleaning device has at least one tray stacker, wherein the cleaning device has at least one first guide rail and at least one second guide rail, wherein the first and the second guide rail are designed to hold a tray upright for a first section as it is pushed out from the transportation device and then to tip it, so that the tray tips onto a stack of trays.

11. The cleaning device as claimed in one of claims 1 to 10, furthermore comprising at least one controller, wherein the controller is designed to identify the prespecified type of washware on the basis of data from the sensor and to actuate the slide in a corresponding manner.

12. The cleaning device as claimed in one of claims 1 to 11, wherein the sensor comprises at least one sensor selected from the group consisting of: a camera; a light barrier; a button; a switch; an electromechanical switch; a mechanical-pneumatic switch; a tilting lever.

13. The cleaning device as claimed in one of claims 1 to 12, furthermore comprising at least one transfer device which is arranged at one end of the outlet region, wherein the transfer device is designed to automatically remove washware other than the washware of the prespecified type from the transportation device.

14. The cleaning device as claimed in one of claims 1 to 13, wherein the cleaning device comprises at least one dishwasher.

15. A method for cleaning washware, comprising the following method steps:

I. providing a cleaning device as claimed in one of claims 1 to 14;

II. receiving the washware on the transportation device;

III. transporting the washware through the cleaning chamber in the transportation direction;

IV. applying at least one cleaning liquid to the washware in the cleaning chamber by means of the application device;

V. identifying at least one prespecified type of washware using the at least one sensor; and

VI. pushing the washware of the prespecified type out of the transportation device transversely to the transportation direction by means of the slide.