

Title (en)

SEMICONDUCTOR WAFER CONTAINER CLEANING APPARATUS

Title (de)

VORRICHTUNG ZUR REINIGUNG VON HALBLEITER-WAFER BEHÄLTERN

Title (fr)

APPAREIL DE NETTOYAGE DE CONTENANTS POUR PLAQUETTES SEMI-CONDUCTRICES

Publication

**EP 1313573 A2 20030528 (EN)**

Application

**EP 01984548 A 20010620**

Priority

- US 0141085 W 20010620
- US 61164200 A 20000707
- US 65839500 A 20000908

Abstract (en)

[origin: WO0217355A2] A cleaning system for cleaning boxes (52) or containers used to carry semiconductor wafers and other flat articles, has box holder assemblies (50) and a box door holder assembly (300) attached to a rotor (36) within an enclosure (38). Upper and lower hooks (96, 108, 314, 316) on the box holder and box door holder assemblies hold boxes (52) and doors (325) as the rotor spins. Liquid spray manifolds (406) have one or more spray nozzles (430) that spray at an angle toward or away from the direction of rotation of the rotor, or an angle up or down, rather than straight at the boxes in the box holder assemblies. Improved spray coverage and cleaning is achieved. Boxes and their doors, such as front opening unified pods (FOUP), are both efficiently cleaned and handled.

IPC 1-7

**B08B 3/02**; **B08B 5/02**; **B08B 9/08**; **B08B 3/12**; **H01L 21/00**

IPC 8 full level

**H01L 21/304** (2006.01); **B08B 3/02** (2006.01); **B08B 3/12** (2006.01); **B08B 9/08** (2006.01); **B08B 9/32** (2006.01); **H01L 21/00** (2006.01)

CPC (source: EP)

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