

Title (en)  
BOTTLE CLEANING DEVICE

Title (de)  
FLASCHENREINIGUNGSMASCHINE ZUM REINIGEN VON FLASCHEN

Title (fr)  
MACHINE DE NETTOYAGE DE BOUTEILLES DESTINÉE AU NETTOYAGE DE BOUTEILLES

Publication  
**EP 3501676 A1 20190626 (DE)**

Application  
**EP 18176907 A 20180611**

Priority  
DE 202017107882 U 20171222

Abstract (en)  
[origin: CN110000175A] The invention relates to a bottle cleaning device for cleaning bottles, and particularly to the bottle cleaning device for cleaning the bottles in a beverage processing industry. The bottle cleaning device is provided with a conveying device which is used for conveying the bottles to the input area of the bottle cleaning device in an orderless and standing mode. An identification device for identifying the defected and/or tilted bottles is arranged in the input area and/or in front of the input area. The input area is internally provided with a mechanical arm with a grabbing element. A control unit can receive information related with the defected and/or tilted bottle from the identification device, and furthermore can make a robot vertically place the bottom or remove the bottle from the conveying device. Furthermore, the invention further relates to the bottle cleaning device for cleaning the bottles in the beverage processing industry. The bottle cleaning device is equipped with a collecting container for the chosen bottles. The collecting container comprises a material level sensor which is constructed for outputting a signal that indicates a material level when the preset material level is reached.

Abstract (de)  
Beschrieben werden eine Flaschenreinigungsmaschine (100, 400) zum Reinigen von Flaschen (130) in der Getränkeverarbeitenden Industrie, mit einer Transporteinrichtung (111) zum ungeordneten, stehenden Transport von Flaschen (130) in einem Massenstrom zu einem Eingangsbereich (110, 410) der Flaschenreinigungsmaschine (100, 400), wobei in oder vor dem Eingangsbereich (110, 410) eine Erkennungseinrichtung (120) zum Erkennen einer defekten und/oder umgefallenen Flasche (131) und im Eingangsbereich (110, 410) ein Roboterarm (140) mit einem Greifelement (145) angeordnet sind, wobei eine Steuereinheit (190) Informationen über eine defekte und/oder umgefallene Flasche (131) von der Erkennungseinrichtung (120) empfangen und den Roboterarm (140) steuern kann, die defekte und/oder umgefallene Flasche (131) aufzurichten oder aus der Transporteinrichtung (111) zu entfernen.

IPC 8 full level  
**B08B 9/20** (2006.01); **B07C 5/34** (2006.01); **B08B 9/44** (2006.01); **B65G 43/08** (2006.01)

CPC (source: CN EP)  
**B07C 5/3408** (2013.01 - EP); **B08B 9/20** (2013.01 - CN); **B08B 9/205** (2013.01 - CN EP); **B08B 9/44** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)  
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