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ABSTRACT

Application No.
201103422-0

TEXT OF THE ABSTRACT

A component pane handling apparatus (20) configured to handle, carry, capture, hold, retrieve, and/or transfer e.g. wafers or film frames (50a,b,c) or solar cell panels ("components panes" (50)) of multiple different sizes. The component pane handling apparatus (20) includes at least one component pane capture element (100) that can be displaced between a number of different positions, each position corresponding to a particular component pane size. Therefore, the at least one component pane capture element (100) can be positioned to different positions for allowing handling, carrying, capturing, holding, retrieving, and/or transferring of component panes (50) of corresponding sizes. The component pane handling apparatus (20) also includes a position alignment mechanism configured to control and/or effectuate displacement of the at least one component pane capture element (100) to the different positions. The component pane handling apparatus (20) can also include at least one displacement arm (200) coupled to the at least one component pane capture element (100). The displacement of the at least one component pane capture element (100) can be effectuated by a displacement, rotation, and/or translation of at least a portion of the at least one displacement arm (200). A method for handling component panes (50), (e.g., wafers or film frames (50a,b,c) or solar cell panels) of multiple sizes is also included in this disclosure.

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COMPONENT PANE HANDLER CONFIGURED TO HANDLE COMPONENT PANES OF MULTIPLE SIZES

Abstract

A component pane handling apparatus (20) configured to handle, carry, capture, hold, retrieve, and/or transfer e.g. wafers or film frames (50a,b,c) or solar cell panels ("components panes" (50)) of multiple different sizes. The component pane handling apparatus (20) includes at least one component pane capture element (100) that can be displaced between a number of different positions, each position corresponding to a particular component pane size. Therefore, the at least one component pane capture element (100) can be positioned to different positions for allowing handling, carrying, capturing, holding, retrieving, and/or transferring of component panes (50) of corresponding sizes. The component pane handling apparatus (20) also includes a position alignment mechanism configured to control and/or effectuate displacement of the at least one component pane capture element (100) to the different positions. The component pane handling apparatus (20) can also include at least one displacement arm (200) coupled to the at least one component pane capture element (100). The displacement of the at least one component pane capture element (100) can be effectuated by a displacement, rotation, and/or translation of at least a portion of the at least one displacement arm (200). A method for handling component panes (50), (e.g., wafers or film frames (50a,b,c) or solar cell panels) of multiple sizes is also included in this disclosure.

Figure 1