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Kearney et al.

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(54) **SYSTEM FOR CONVEYING AN ARTICLE USING VORTEX SUCTION UNITS**

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CPC ***B65G 17/46*** (2013.01); ***B65H 29/241*** (2013.01); ***B65H 29/32*** (2013.01); ***B65H 29/58*** (2013.01); *B65H 2301/3122* (2013.01); *B65H 2301/3421* (2013.01); *B65H 2301/4212* (2013.01); *B65H 2301/44735* (2013.01); *B65H 2406/3124* (2013.01); *B65H 2406/3662* (2013.01)

(58) **Field of Classification Search**

USPC 198/689.1, 811, 617; 406/77, 78; 271/3.23, 195, 197

See application file for complete search history.

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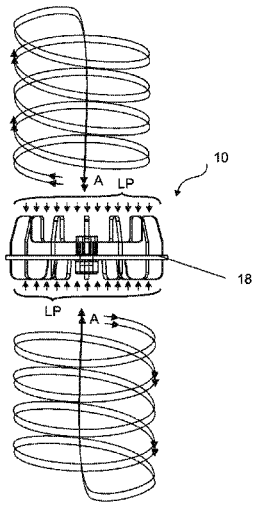
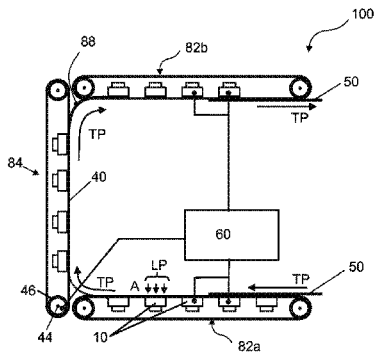
(57) **ABSTRACT**

A system for conveying an article along a transfer path includes at least a first and a second vortex suction unit disposed in sequence in a direction of the transfer path. A conveyor is configured to support the article relative to at least one of the suction units and a main controller is configured to separately control the vortex suction units so as to convey the article along the transfer path using the conveyor.

18 Claims, 12 Drawing Sheets