ABSTRACT

ROBOT FOR SIMULTANEOUS SUBSTRATE TRANSFER

Exemplary substrate processing systems may include a transfer region housing defining a transfer region fluidly coupled with a plurality of processing regions. A sidewall of the transfer region housing may define a sealable access for providing and receiving substrates. The systems may include a plurality of substrate supports disposed within the transfer region. The systems may also include a transfer apparatus having a central hub including a first shaft and a second shaft counter-rotatable with the first shaft. The transfer apparatus may include an eccentric hub extending at least partially through the central hub, and which is radially offset from a central axis of the central hub. The transfer apparatus may also include an end effector coupled with the eccentric hub. The end effector may include a plurality of arms having a number of arms equal to the number of substrate supports of the plurality of substrate supports.

(Figure 2)