

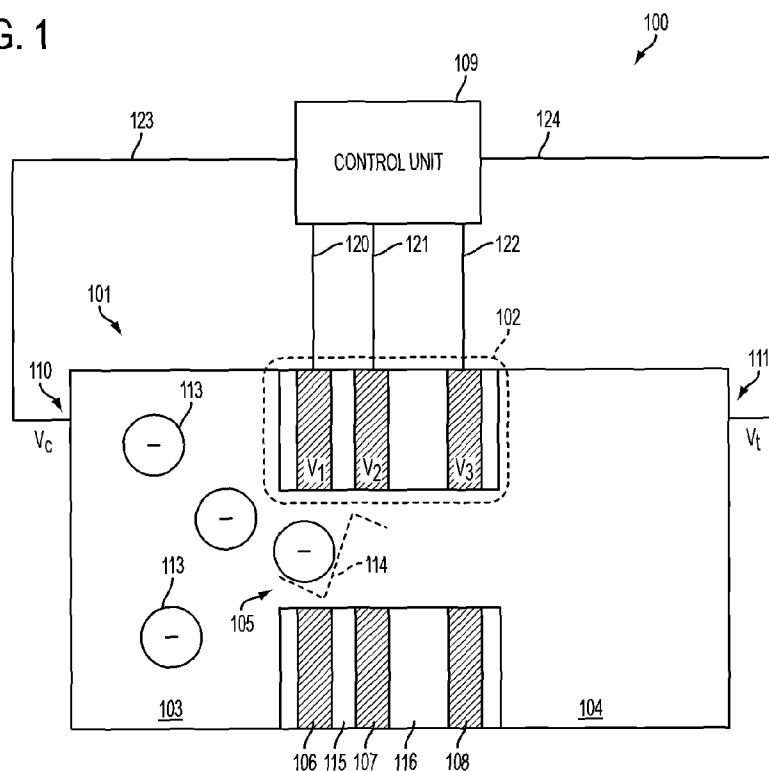


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(54) Title: MOLECULAR DISPENSERS

FIG. 1



[Continued on next page]



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(57) Abstract: A method for dispensing charged particles includes applying a bias voltage to promote motion of charged molecules through a nanopore, detecting passage of at least one charged molecule through the nanopore, and manipulating an electrostatic potential barrier inside the nanopore, so as to prevent movement of additional charged molecules through the nanopore.