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(54) **Title:** CELL CULTURE CHAMBER FOR INCREASED CELL YIELD

(57) **Abstract:** The present disclosure provides cell culture chambers for use in automated cell engineering systems, and in particular, cell culture chambers that provide increased cell yield. A cell culture chamber may include a first body forming a first portion of the cell culture chamber. A cell culture chamber may include a second body forming a second portion of the cell culture chamber, the first body and the second body configured to couple together, forming an enclosed volume, wherein a first non-porous, gas-permeable material is disposed on the first body; and wherein the first non-porous, gas-permeable material and the first body are formed together. A second non-porous, gas-permeable material may be disposed on the second body, and the second non-porous, gas-permeable material and the second body may be formed together. The cell culture chamber may further include at least one bubble trap integrally formed with the first body and/or the second body.



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