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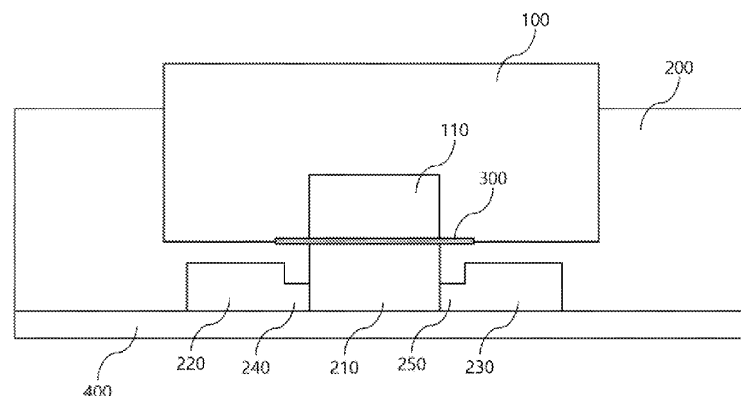
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(54) Title: MICROENGINEERED TISSUE BARRIER SYSTEM

Fig. 1



(57) Abstract: The present disclosure relates to a microfluidic device for simulating the structure and function of an *in vivo* tissue barrier. Specifically, the present disclosure relates to a microfluidic device that can be used as a model for new drug development and toxicity assessment and the like by simulating the structure and function of a two-dimensional-three-dimensional connective tissue barrier or a three-dimensional tissue barrier and thus replacing animal models, a method of culturing cells in the microfluidic device, and a method of simulating an organ or a body part using the microfluidic device.

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