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(54) Title: SINGLE USE FLEXIBLE SPARGER

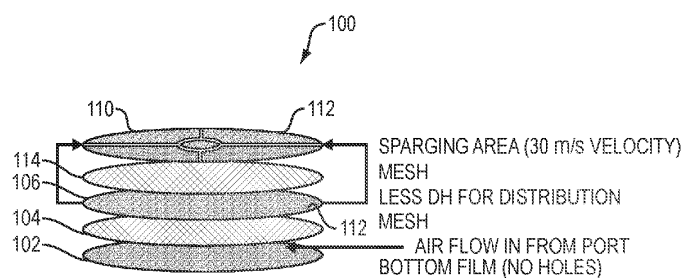


FIG. 1

(57) Abstract: A multi-layered flexible sparger (100) that has a bottom film layer (102), a middle film layer (106), and a top film layer (110); a first inner mesh (104) disposed between the bottom film layer and the middle film layer; a second inner mesh (114) disposed between the middle film layer and the top film layer; and a port capable of delivering a gas to the multi-layered flexible sparger disposed between the top film layer and the bottom film layer, wherein the middle film layer comprises drill holes and the top film layer comprises drill holes.

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