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(54) Title: MEMBRANE DIFFUSER FOR A SUBSTRATE CONTAINER

(57) Abstract: Purge diffusers for use in systems for transporting substrates include: i) a purge diffuser core having an internal purge gas channel, one or more diffuser ports and an outer surface; ii) filter media secured to the outer surface of the purge diffuser core; and iii) a purge port connector for mounting the purge diffuser to a purge port of a substrate container for transporting substrates. The purge diffuser core may be a unitary article, may be formed by injection molding, and may include diverters internal to the internal purge gas channel.

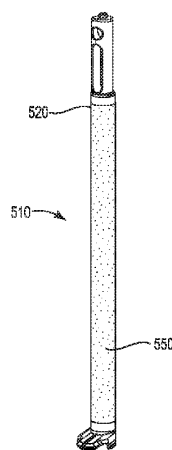


FIG. 7A

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