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(57) Abstract :

A multilayer stack is described. The multilayer stack includes: (i) one or more inorganic barrier layers for reducing transport of gas or vapor molecules therethrough; (ii) an inorganic reactive layer disposed adjacent to one or more of the inorganic barrier layers and the reactive layer capable of reacting with the gas or the vapor molecules; and (iii) wherein in an operational state of the multilayer stack the vapor or the gas molecules that diffuse through one or more of the inorganic barrier layers react with the inorganic reactive layer and thereby allow said multilayer stack to be substantially impervious to the gas or the vapor molecules.

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