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Declarations under Rule 4.17:

[Continued on next page]

(54) Title: GRADIENT COMPOSITION BARRIER

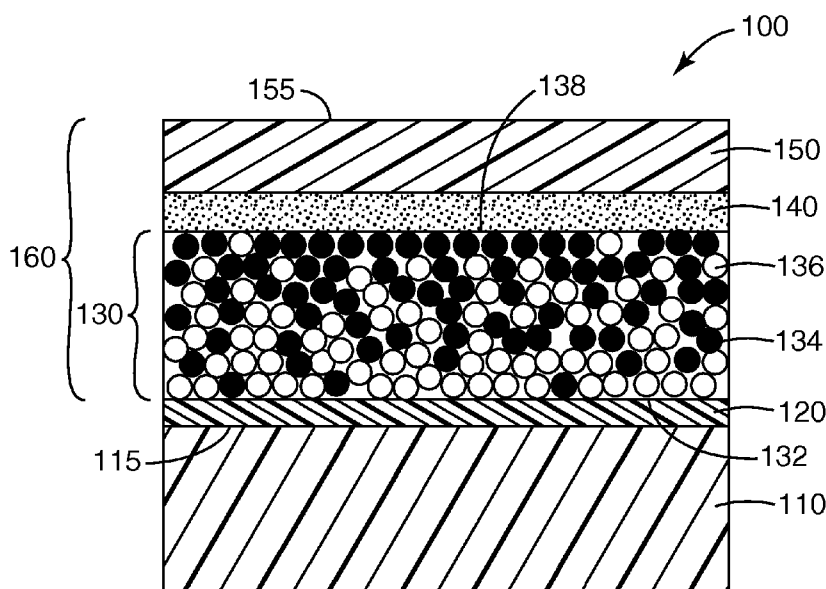


Fig. 1

(57) Abstract: Generally, the present disclosure relates to barrier assemblies that have a reduced transmission of water vapor, and processes for making the barrier assemblies. The barrier assemblies include a substrate and an inorganic layer disposed adjacent the substrate. The inorganic layer has a composition that changes throughout the thickness of the inorganic layer. The composition includes at least a first and a second inorganic material, and the relative proportion of the first and second inorganic material in the composition changes throughout the thickness of the inorganic layer. A process for making the barrier assemblies includes dual AC sputtering of pairs of targets having different elemental compositions.



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- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))* — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
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