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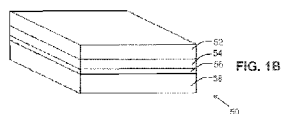
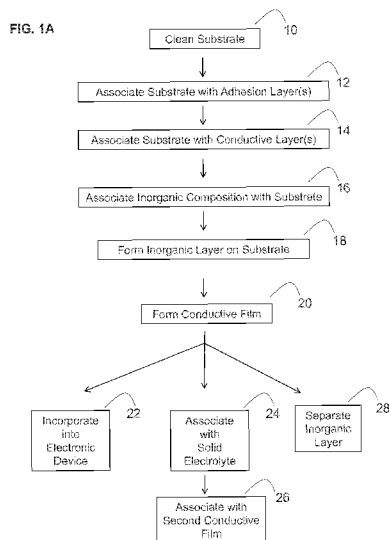
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(54) **Title:** PRODUCTION AND USE OF FLEXIBLE CONDUCTIVE FILMS AND INORGANIC LAYERS IN ELECTRONIC DEVICES



(57) **Abstract:** Embodiments of the present disclosure pertain to methods of making conductive films by associating an inorganic composition with an insulating substrate, and forming a porous inorganic layer from the inorganic composition on the insulating substrate. The inorganic layer may include a nanoporous metal layer, such as nickel fluoride. The methods of the present disclosure may also include a step of incorporating the conductive films into an electronic device. The methods of the present disclosure may also include a step of associating the conductive films with a solid electrolyte prior to its incorporation into an electronic device. The methods of the present disclosure may also include a step of separating the inorganic layer from the conductive film to form a freestanding inorganic layer. Further embodiments of the present disclosure pertain to the conductive films and freestanding inorganic layers.