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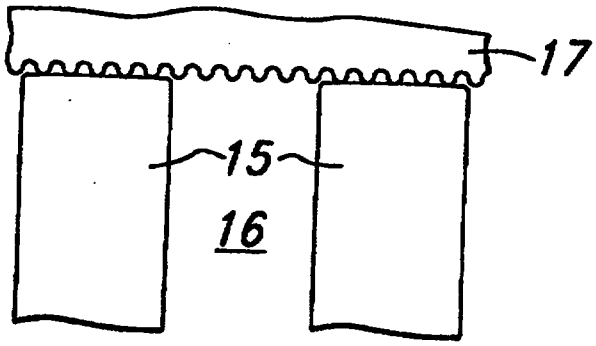
(54) Title: MICROELECTRONIC ASSEMBLIES INCLUDING Z-AXIS CONDUCTIVE FILMS

(57) Abstract

An assembly of two or more microelectronic parts, wherein electrical and/or thermal interconnection between the parts is achieved by means of multiple, discrete, conductive nanoscopic fibrils (15) or tubules (15) fixed within the pores of an insulating film (16). Such a film is said to have anisotropic electrical conductivity, i.e., Z-axis conductivity, with little or no conductivity in the other directions.



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