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[Continued on next page]

(54) **Title**: OPTOELECTRONIC DEVICES WITH THIN BARRIER FILMS WITH CRYSTALLINE CHARACTERISTICS THAT ARE CONFORMALLY COATED ONTO COMPLEX SURFACES TO PROVIDE PROTECTION AGAINST MOISTURE

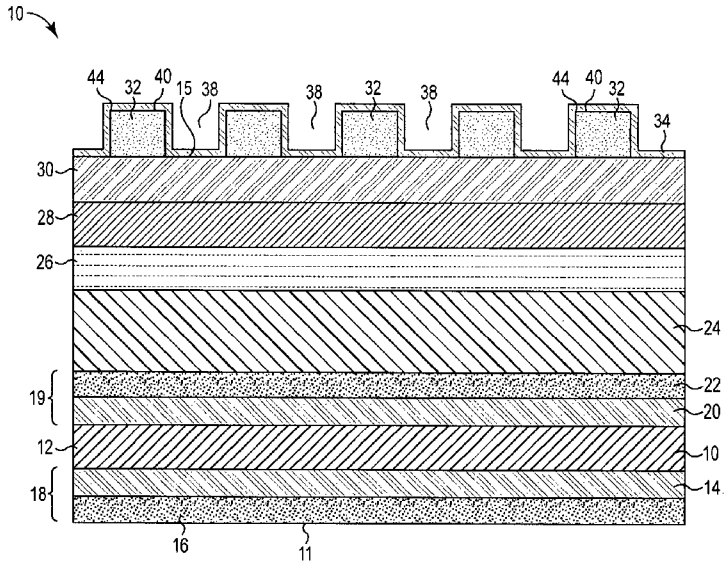


Fig. 1b

(57) **Abstract**: The present invention provides optoelectronic devices containing at least one conforming, thin film barrier coating provided on a nonplanar surface comprising a plurality of junctures. The barrier coating has a hybrid morphology including crystalline domains distributed in an amorphous matrix. The conformal coatings protect the optoelectronic device with long-lasting, durable, high quality barrier protection even though the coatings have sufficient crystalline characteristics so that many embodiments are electrically conductive.

WO 2013/019608 A1

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