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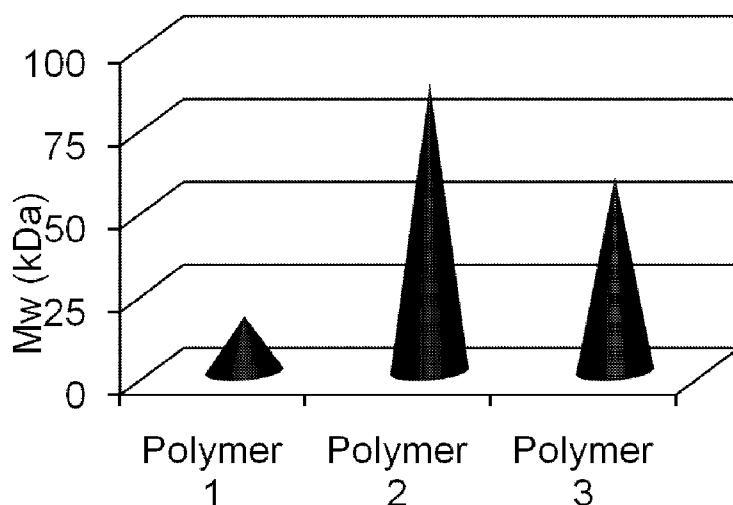
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[Continued on next page]

(54) Title: POLYMERIC PRECURSORS FOR CIS AND CIGS PHOTOVOLTAICS

Fig. 20



(57) Abstract: This invention relates to a range of compounds, polymeric compounds, and compositions used to prepare semiconductor and optoelectronic materials and devices including thin film and band gap materials for photovoltaic applications including devices and systems for energy conversion and solar cells. In particular, this invention relates to polymeric precursor compounds and precursor materials for preparing photovoltaic layers. A precursor compound may contain repeating units $\{M^A(ER)(ER)\}$ and $\{M^B(ER)(ER)\}$, wherein each M^A is Cu, each M^B is In or Ga, each E is S, Se, or Te, and each R is independently selected, for each occurrence, from alkyl, aryl, heteroaryl, alkenyl, amido, silyl, and inorganic and organic ligands.

**Declarations under Rule 4.17:**

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