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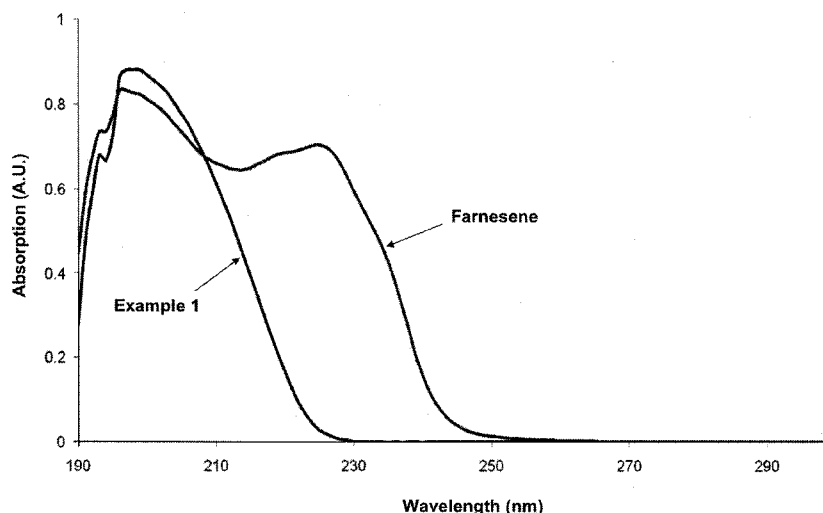
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(54) Title: FARNESENE INTERPOLYMERS

Figure 1

(57) Abstract: Farnesene interpolymers comprises units derived from a farnesene (e.g., α -farnesene or β -farnesene) and units derived from at least one vinyl monomer. The farnesene interpolymers can be prepared by copolymerizing the farnesene and at least one vinyl monomer in the presence of a catalyst. In some embodiments, the farnesene is prepared from a sugar by using a microorganism. In other embodiments, the at least one vinyl monomer is ethylene, an α -olefin, or a substituted or unsubstituted vinyl halide, vinyl ether, acrylonitrile, acrylic ester, methacrylic ester, acrylamide or methacrylamide, or a combination thereof.