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(54) **Title**: MULTILAYER POLYMER FILMS HAVING IMPROVED BARRIER PROPERTIES

Figure 1

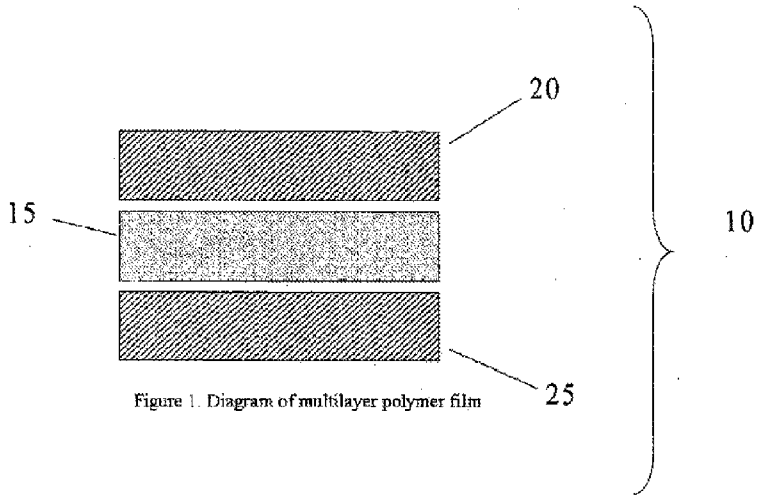

Figure 1. Diagram of multilayer polymer film

(57) **Abstract**: A multilayer polymer film comprising an outer skin layer, an inner seal layer and at least one core layer disposed between the inner and outer skin layer, wherein the outer skin layerscomprises a metallocene-catalyzed ethylene polymer having a density of equal to or greater than about 0.945 g/cc and a melt index equal to or greater than 0.5 g/10 min. A multilayer polymer film comprising a metallocene-catalyzed high-density polyethylene homopolymer skin layer and at least one core layer comprising a high-density polyethylene having a melt index of less than or equal to 2.0 g/10 min. A multilayer polymer film comprising at least a skin layer and a core layer wherein the skin layer comprises a metallocene-catalyzed ethylene polymer provided from a catalyst composition comprising a single metallocene and an activator support.

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