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(54) Title: BREATHABLE FILMS WITH MICROBIAL BARRIER PROPERTIES

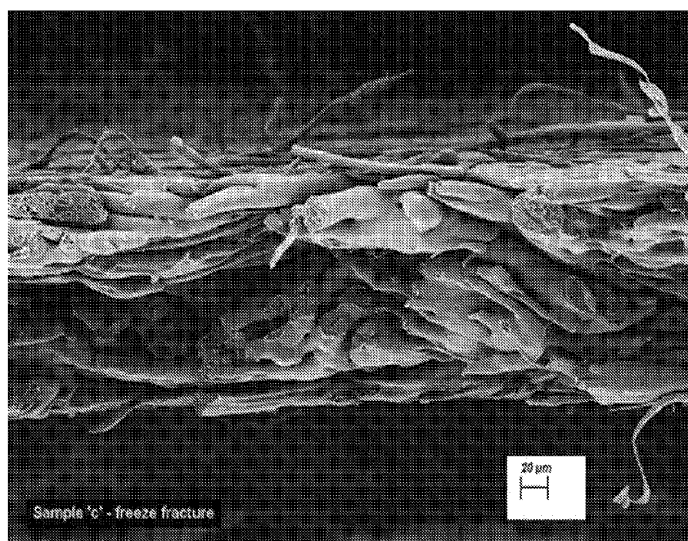


FIG. 2

(57) Abstract: Films for medical devices and/or packaging include polyethylene-poly(ethylene oxide) amphiphilic graft copolymers (PE-g-PEO) in their base polymer formulations of polyethylene and poly(ethylene oxide). The films may be treated to include a nitric-oxide releasing agent incorporated into the PE-g-PEO. Also, microbial agents for inclusion in medical devices are provided, which comprise: an olefin-poly(ethylene oxide) amphiphilic graft copolymer, wherein a portion of the poly(ethylene oxide) comprises end groups converted to a nitric oxide-releasing agent. The amphiphilic graft copolymer of the microbial agents may comprise a polyethylene-poly(ethylene oxide) amphiphilic graft copolymer (PE-g-PEO), a polypropylene-poly(ethylene oxide) amphiphilic graft copolymer (PP-g-PEO), or mixtures thereof.

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