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(54) **Title:** MICRONEEDLE ASSEMBLY

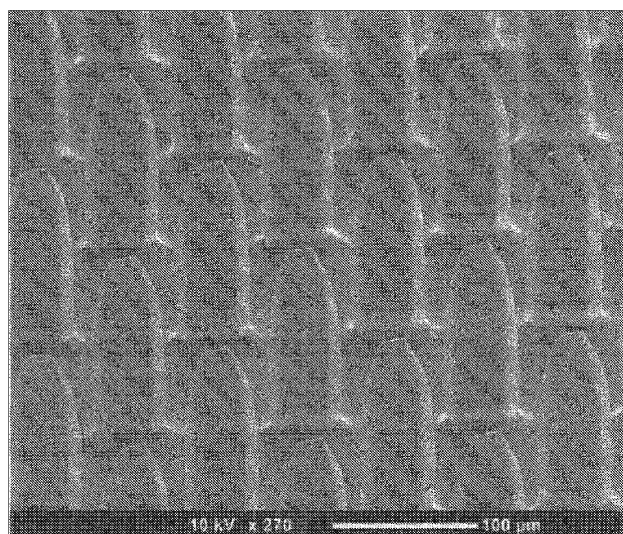


FIG. 1

(57) **Abstract:** A microneedle assembly that is capable of delivering a drug compound (e.g., vaccine) and/or detecting the presence of an analyte is provided. The assembly comprises at least one microneedle extending outwardly from a support. The microneedle includes a polymer composition containing a thermoplastic polymer having a melting temperature of about 250°C or more. The polymer composition exhibits a melt viscosity of about 100 Pa-s or less and a tensile elongation of about 5% or less.

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