GREEN RESINS FOR LITHOGRAPHY

DESCRIPTION

These new green resins for lithography, made from polymers derived from biomass and use water as the solvent, are an environmentally-friendly alternative to conventional resins. Synthetic lithographic resins, made from fuel and require organic solvent, are toxic for the environment. These biopolymers, made from natural chitosane or alginate, show promising photo- and electro-sensitivity. They can be advantageously used as resins for photolithography / electronic lithography application, and their use requires no organic solvent. Using such resins in lithographic masks is the best way to overcome the next REACH and US Pollution Act regulatory restrictions to come.

COMPETITIVE ADVANTAGES

- Green resin made from biomass
- Water solubility
- Low production cost

DEVELOPMENT STATUS

- Proof of concept
- Laboratory tests on chitosane-based polymers:
  - Electronic lithography: 50 nm resolution
  - Photolithography: 5 µm resolution

PARTNERSHIP

PULSALYS is looking for industrial partners interested in (co-) developing and commercializing this product, or business profiles interested in entrepreneurship / startup on this product.