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(54) **HIGH SOLID CONTENT BATTERY INK FOR PRINTED BATTERIES AND METHODS OF MAKING**

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(57) **ABSTRACT**

A screen-printable electrode battery ink is described comprising a slurry of an active ingredient, conductive additive, a binder, and a solvent, the slurry having a solids content from about 40% by weight to about 70% by weight that is uniformly distributed in the solvent, wherein the ink has a thixotropic recovery rate from about 30 seconds to about 90 seconds, and wherein the binder has untwisted molecular chains. Methods for making the screen-printable electrode battery ink are also described. The screen-printable electrode battery inks can be used to screen print electrodes, for use in fast-charging battery. Fast-charging batteries can be incorporated into electronic devices, such as electric vehicles.