

**HYDROGEL COMPOSITION, HYDROGEL-REINFORCED CELLULOSE
PAPER BATTERY SEPARATOR AND A PAPER BATTERY COMPRISING THE
SAME**

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Abstract

A hydrogel composition for reinforcing a cellulose paper battery separator comprises a monomer, a cross-linking reagent, an initiator, and a metal salt. A hydrogel-reinforced cellulose paper battery separator comprises a cellulose paper, and a hydrogel integrated within the cellulose paper. A paper battery comprises the hydrogel reinforced cellulose paper battery separator. A method for fabricating the hydrogel reinforced cellulose paper battery separator.

Fig. 1

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