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(54) **METHOD FOR CONVERSION OF CARBOHYDRATE POLYMERS TO VALUE-ADDED CHEMICAL PRODUCTS**

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(58) **Field of Classification Search** None
See application file for complete search history.

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(57) **ABSTRACT**

Methods are described for conversion of carbohydrate polymers in ionic liquids, including cellulose, that yield value-added chemicals including, e.g., glucose and 5-hydroxymethylfurfural (HMF) at temperatures below 120° C. Catalyst compositions that include various mixed metal halides are described that are selective for specified products with yields, e.g., of up to about 56% in a single step process.

25 Claims, 3 Drawing Sheets