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(54) Title: MICROPOROUS CARBON ADSORBENT FROM NATURAL CARBOHYDRATES

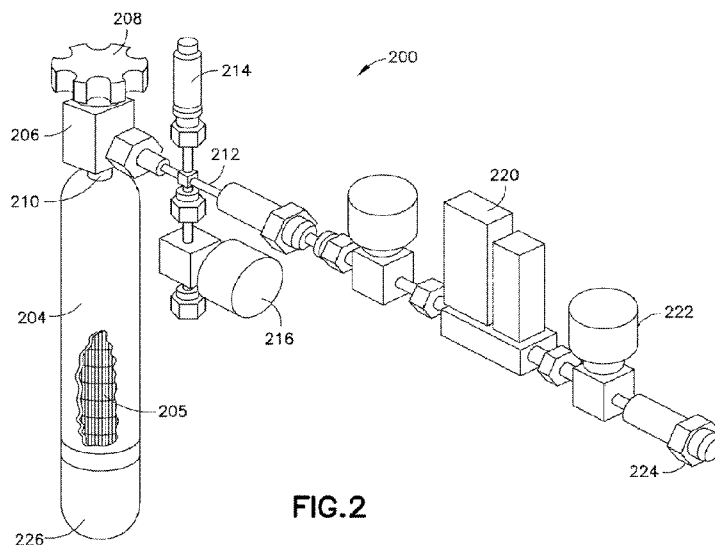


FIG. 2

(57) Abstract: A carbon pyrolyzate material is disclosed, having utility as an adsorbent as well as for energy storage and other applications. The pyrolyzate material comprises microporous carbon derived from low cost naturally-occurring carbohydrate source material such as polysaccharides. In adsorbent applications, the carbon pyrolyzate may for example be produced in a particulate form or a monolithic form, having high density and high pore volume to maximize gas storage and delivery, with the pore size distribution of the carbon pyrolyzate adsorbent being tunable via activation conditions to optimize storage capacity and delivery for specific gases of interest.