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(54) Title: FUNCTIONALISED HYDROGELS

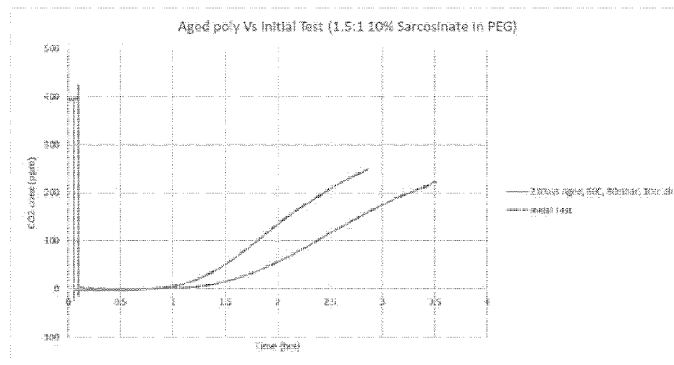


FIGURE 6

(57) Abstract: The present disclosure is to functionalised polyamine hydrogels that can be used for capturing one or more acidic gases from gaseous streams and atmospheres. In particular, the present disclosure is directed to hydrogels comprising a cross-linked polyamine or copolymer thereof, wherein the cross-linked polyamine comprises one or more amine groups substituted with an optionally substituted alkanol group. Methods and apparatuses for removing acidic gases from gaseous streams or atmospheres using the functionalised hydrogels are also disclosed.

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