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(54) Title: ENERGY ABSORBING MATERIAL

(57) Abstract: There is provided a self-supporting energy absorbing composite comprising: i) a solid foamed synthetic polymer matrix; ii) a polymer-based dilatant, different from i) distributed through the matrix and incorporated therein during manufacture of i); and iii) a fluid distributed through the matrix, the combination of matrix, dilatant and fluid being such that the composite is resiliently compressible. There is also provided a self-supporting energy absorbing composite comprising: iv) a solid, closed cell foam matrix; v) a polymer-based dilatant, different from i), distributed through the matrix; and vi) a fluid distributed through the matrix, the combination of matrix, dilatant and fluid being such that the composite is resiliently compressible.