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(54) **METHODS OF MAKING FOAMED MATERIALS OF BLENDED THERMOPLASTIC POLYMERS USING CARBON DIOXIDE**

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(58) **Field of Search** **521/134, 135, 521/136, 137, 138, 139, 140, 79; 264/50, 51**

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(57) **ABSTRACT**

A method of producing a foamed material comprises contacting a mixture comprising a first thermoplastic polymer and a second thermoplastic polymer with a blowing agent, wherein the first thermoplastic polymer has a higher percent crystallinity than the second thermoplastic polymer; and subjecting the mixture to conditions sufficient to create a thermodynamic instability in the blend foam the mixture, wherein the mixture comprising the first and second thermoplastic polymers has a percent crystallinity lower than the first thermoplastic polymer.

60 Claims, 7 Drawing Sheets

