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(54) Title: HIGHLY DELAMINATED HEXAGONAL BORON NITRIDE POWDERS, PROCESS FOR MAKING, AND USES THEREOF

(57) Abstract: The present invention relates to a powder comprising boron nitride particles having an aspect ratio of from about 50 to about 300. The present invention also relates to a method of making delaminated boron nitride powder. This method involves providing boron nitride powder and milling the boron nitride powder in a mixture including a milling media and a milling liquid under conditions effective to produce delaminated boron nitride powder. Another aspect of the present invention is a method for extruding a molten polymer. This method involves blending a powder comprising hexagonal boron nitride particles having an aspect ratio of from about 50 to about 300 with a polymer to form a blend and extruding the blend through an extruder under conditions effective to disperse the boron nitride particles throughout the polymer to form an extrusion product.

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