

Title (en)  
PYRIDINIUM SALTS FOR POLYMER COMPOSITES AND METHODS FOR THEIR PREPARATION

Title (de)  
PYRIDINSALZE FÜR POLYMER VERBINDUNGEN UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)  
COMPOSITIONS ET PROCÉDÉS POUR COMPOSITES POLYMÈRES

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Application  
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Abstract (en)  
[origin: WO2008002868A2] This invention relates to organic salt compositions useful in the preparation of organoclay compositions, polymer-organoclay composite compositions, and methods for the preparation of polymer nanocomposites. In one embodiment, the present invention provides a pyridinium salt having structure XV; wherein Ar<sup>6</sup>, Ar<sup>7</sup>, and Ar<sup>8</sup> are independently C<sub>2</sub>-C<sub>50</sub> aromatic radicals; "b" is a number from 0 to 2; "d" is a number from 0 to 4; R<sup>3</sup> and R<sup>4</sup> are independently at each occurrence a halogen atom, a C<sub>1</sub>-C<sub>20</sub> aliphatic radical, a C<sub>5</sub>-C<sub>20</sub> cycloaliphatic radical, or a C<sub>2</sub>-C<sub>20</sub> aromatic radical; Z is a bond, a divalent C<sub>1</sub>-C<sub>20</sub> aliphatic radical, a divalent C<sub>5</sub>-C<sub>20</sub> cycloaliphatic radical, a divalent C<sub>2</sub>-C<sub>20</sub> aromatic radical, an oxygen linking group, a sulfur linking group, a SO<sub>2</sub> linking group, or a Se linking group; Ar<sup>9</sup> is a C<sub>10</sub>-C<sub>200</sub> aromatic radical, or a polymer chain comprising at least one aromatic group; and X<sup>-</sup> is a charge balancing counterion.

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