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Brizius

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(54) **PHOSPHONATE-SUBSTITUTED LIGNIN AS A FLAME RETARDANT**

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This patent is subject to a terminal disclaimer.

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(58) **Field of Classification Search**

None
See application file for complete search history.

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(57) **ABSTRACT**

Modified lignin having covalently attached phosphorous containing groups and methods for preparing such compounds are described herein. The modified lignin described herein provides a renewable source of flame retardant material.

25 Claims, 1 Drawing Sheet

