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**Burrows et al.**

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(54) **METHOD OF TEMPERING FIBERBOARD DOORSKIN USING LIQUID THERMOSETS**

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(58) **Field of Search** ..... **427/393**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,009,073 A 2/1977 Pozzo et al. .... 162/132  
4,227,965 A 10/1980 Luszczak ..... 162/13

4,517,240 A 5/1985 Tracton et al. .... 427/370  
4,940,741 A 7/1990 De Wacker et al. .... 524/47  
5,344,484 A \* 9/1994 Walsh ..... 106/201  
5,367,040 A 11/1994 Teodorczyk ..... 427/339  
5,603,881 A 2/1997 Hanna ..... 264/123

**FOREIGN PATENT DOCUMENTS**

CA 2128919 7/1994  
WO WO 98/32600 \* 7/1998  
WO WO 98/56991 \* 12/1998

\* cited by examiner

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(57) **ABSTRACT**

The invention is directed to a method of tempering fiberboard that includes applying a substantially solvent-free, liquid tempering composition on at least one surface of the fiberboard and curing the tempering composition. The tempering composition includes at least one thermoset material such as one-part moisture cure polyurethane. The tempered fiberboard can be used directly as doorskin.

**21 Claims, No Drawings**