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Pervan

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(54) **FLOORBOARD AND METHOD FOR MANUFACTURING THEREOF**

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(58) **Field of Classification Search**
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See application file for complete search history.

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(56) **References Cited**

U.S. PATENT DOCUMENTS

(21) Appl. No.: **14/324,677**

213,740 A 4/1879 Connor
1,394,120 A 10/1921 Rockwell

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FOREIGN PATENT DOCUMENTS

Related U.S. Application Data

CA 2 252 791 A1 5/1999
CA 2 252 791 C 5/1999

(Continued)

(63) Continuation of application No. 13/343,439, filed on Jan. 4, 2012, now Pat. No. 8,800,150, which is a continuation of application No. 11/822,686, filed on Jul. 9, 2007, now Pat. No. 8,112,891, which is a continuation of application No. 10/708,314, filed on Feb. 24, 2004, now abandoned.

OTHER PUBLICATIONS

U.S. Appl. No. 14/272,895, Nilsson et al.

(Continued)

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(57) **ABSTRACT**

Floorboards with a surface of flexible fibers for laying a mechanically joined floating floor, and methods for manufacturing and providing floorings containing such floorboards. For example, floorboards including a surface layer and a core, for making a floating flooring, which floorboards are mechanically lockable and which along their edge portions have pairs of opposing connectors for locking similar, adjoining floorboards to each other both vertically and horizontally, wherein the surface layer comprises flexible resilient fibers.

(52) **U.S. Cl.**
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24 Claims, 7 Drawing Sheets

