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**Avar et al.**

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(54) **ARTICLE OF FOOTWEAR WITH MULTI-DIRECTIONAL SOLE STRUCTURE**

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(71) Applicant: **Nike, Inc.**, Beaverton, OR (US)

(58) **Field of Classification Search**

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See application file for complete search history.

(72) Inventors: **Eric P. Avar**, Lake Oswego, OR (US); **Aaron A C Cooper**, Portland, OR (US); **David J. Dirsal**, North Andover, MA (US); **Thomas Foxen**, Portland, OR (US); **Tom Luedecke**, Portland, OR (US)

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(73) Assignee: **NIKE, Inc.**, Beaverton, OR (US)

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 456 days.

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*Primary Examiner* — Jila M Mohandesi

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(74) *Attorney, Agent, or Firm* — Banner & Witcoff, Ltd.

(51) **Int. Cl.**

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(57) **ABSTRACT**

An article of footwear with a multi-directional sole structure including a flex groove system is disclosed. The flex groove system includes a plurality of longitudinal flex grooves and lateral flex grooves that divide the sole structure into a plurality of segments. The flex groove system also includes a plurality of diagonal flex grooves that intersect the corners of the plurality of segments. The flex grooves system can provide enhanced flexibility for the sole structure and can enhance multi-directional flexing.

(52) **U.S. Cl.**

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**20 Claims, 7 Drawing Sheets**

