



US010858780B2

(12) **United States Patent**
Martin

(10) **Patent No.:** **US 10,858,780 B2**
(45) **Date of Patent:** **Dec. 8, 2020**

(54) **COMPOSITE ELEVATOR SYSTEM TENSION MEMBER**

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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 140 days.

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(21) Appl. No.: **16/045,189**

(22) Filed: **Jul. 25, 2018**

(65) **Prior Publication Data**
US 2020/0031623 A1 Jan. 30, 2020

(51) **Int. Cl.**
D07B 1/02 (2006.01)
B66B 7/06 (2006.01)

(52) **U.S. Cl.**
CPC **D07B 1/025** (2013.01); **B66B 7/06** (2013.01); **D07B 2205/2042** (2013.01); **D07B 2501/2007** (2013.01)

(58) **Field of Classification Search**
CPC B66B 7/06; D07B 1/025; D07B 1/16
See application file for complete search history.

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(57) **ABSTRACT**

A tension element of an elevator system tension member includes a plurality of first polymer fibers of a first material extending along a length of the tension element, and a plurality of second polymer fibers of a second material different from the first material. The plurality of second polymer fibers have a melting point lower than that of the plurality of first polymer fibers. The plurality of second polymer fibers are fused to the plurality of first polymer fibers to serve as a matrix for the plurality of first polymer fibers.

14 Claims, 4 Drawing Sheets

