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- (71) **Applicant: TDBT IP INC.** [US/US]; 355 Lexington Avenue, 10th Floor, New York, New York 10017 (US).
- (72) **Inventors; and**
- (71) **Applicants: CORNEZ, Scott Douglas** [US/US]; 140 W. 70th Street #2R, New York, New York 10023 (US). **MEZQUITA, Jerson** [US/US]; 419 East 157th Street, Apt. 19, Bronx, New York 10451 (US). **BACHRACH, Nathaniel** [US/US]; 17 Loumar Place, Clifton, New Jersey 07012 (US).
- (74) **Agent: TALAPATRA, Sunit et al.;** Foley & Lardner LLP, 3000 K Street NW, Suite 600, Washington, District of Columbia 20007 (US).
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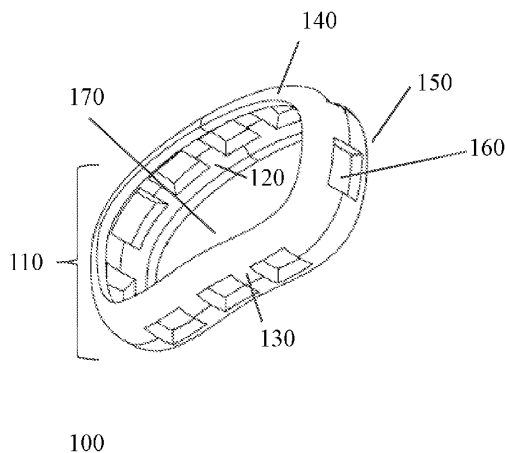
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(54) **Title:** SPINAL DISC REPLACEMENTS AND METHODS OF MAKING THEREOF

FIG. 1A



(57) **Abstract:** A spine disc replacement composition, biocompatible support structure, and methods of fabricating the spine disc replacement and biocompatible support structure are provided. The spine disc replacement composition includes the biocompatible support structure that includes one or more of an annular ring, a first plate, or second plate of a biocompatible material and a tissue-engineered construct that includes a bio ink, where the annular ring includes an inner surface, an outer surface, a first planar surface, and a second planar surface, and the biocompatible material is present in an amount of about 1% to about 100% by weight of the biocompatible support structure.

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