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(12) United States Patent
Copp et al.**(10) Patent No.: US 11,926,584 B2**
(45) Date of Patent: *Mar. 12, 2024**(54) METHODS OF MAKING BEMPEDOIC ACID AND COMPOSITIONS OF THE SAME****(71) Applicant: Esperion Therapeutics, Inc., Ann Arbor, MI (US)****(72) Inventors: Richard Copp, Pinckney, MI (US); Mohamed Abdelnasser, New City, NY (US); Christopher M. Cimarusti, Clementon, NJ (US); Jonathan Lane, Longmont, CO (US); Michael Barkman, Louisville, CO (US); Rasidul Amin, Cary, NC (US); Arthur John Cooper, Mentor, OH (US); Damodaragounder Gopal, Highland Heights, OH (US); Philipp Selig, Linz (AT)****(73) Assignee: Esperion Therapeutics, Inc., Ann Arbor, MI (US)****(*) Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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Related U.S. Application Data**(63)** Continuation of application No. 17/577,829, filed on Jan. 18, 2022, now Pat. No. 11,760,714, which is a continuation of application No. 17/150,321, filed on Jan. 15, 2021, now abandoned, which is a continuation of application No. PCT/US2020/038622, filed on Jun. 19, 2020.**(60)** Provisional application No. 62/864,873, filed on Jun. 21, 2019.**(51) Int. Cl.**
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CPC **C07C 51/04**; **C07C 315/00**
See application file for complete search history.**(56) References Cited**

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(74) Attorney, Agent, or Firm — Goodwin Procter LLP**(57) ABSTRACT**

The invention provides methods of preparing 8-hydroxy-2,2,14,14-tetramethylpentadecanedioic acid and methods of making a pharmaceutical material comprising a purified amount of 8-hydroxy-2,2,14,14-tetramethylpentadecanedioic acid. Also provided are compositions and pharmaceutical materials including a purified amount of 8-hydroxy-2,2,14,14-tetramethylpentadecanedioic acid as well as methods of treating various diseases and conditions using the compositions and pharmaceutical materials.

20 Claims, 6 Drawing Sheets