US 20240235268A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2024/0235268 A1**

Gomez Acevedo (43) **Pub. Date: Jul. 11, 2024**

(54) **FAR FIELD MAGNETIC POWER TRANSFER**

(71) Applicant: **Hector Humberto Gomez Acevedo**, Mexico City (MX)

(72) Inventor: **Hector Humberto Gomez Acevedo**, Mexico City (MX)

(21) Appl. No.: **18/538,281**

(22) Filed: **Dec. 13, 2023**

Related U.S. Application Data

(60) Provisional application No. 63/495,295, filed on Apr. 10, 2023, provisional application No. 63/387,693, filed on Dec. 15, 2022.

Publication Classification

(51) **Int. Cl.**

H02J 50/12	(2006.01)
H01F 38/14	(2006.01)
H02J 50/00	(2006.01)
H02J 50/40	(2006.01)
H04B 5/26	(2006.01)
H04B 5/79	(2006.01)

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

CPC ***H02J 50/12*** (2016.02); ***H01F 38/14*** (2013.01); ***H02J 50/005*** (2020.01); ***H02J 50/40*** (2016.02); ***H04B 5/263*** (2024.01); ***H04B 5/79*** (2024.01); *H01F 2038/143* (2013.01); *H02J 2310/23* (2020.01)

(57) **ABSTRACT**

A far field magnetic power transfer (FFMPT) system, device, and method that enables safer and farther power transmission through magnetic fields, achieving more useful and greater power transfer distances compared against magnetic induction and radiative power transfer. The FFMPT systems, devices, and methods may be used to deliver power through matter such as wood, walls, and biological material such as a patient's body. The FFMPT systems, devices, and methods can be used for neuronal modulation, endovascular catheter guidance, wireless and radiation free powering of implantable devices, and other uses.