

Title (en)
WIRELESS POWER TRANSMITTERS AND ASSOCIATED BASE STATIONS FOR TRANSMITTING POWER AT EXTENDED SEPARATION DISTANCES

Title (de)
DRAHTLOSE STROMSENDER UND ZUGEHÖRIGE BASISSTATIONEN ZUR ÜBERTRAGUNG VON STROM IN ERWEITERTEN TRENNABSTÄNDEN

Title (fr)
ÉMETTEURS D'ÉNERGIE SANS FIL ET STATIONS DE BASE ASSOCIÉES SERVANT À TRANSMETTRE DE L'ÉNERGIE À DE LONGUES DISTANCES DE SÉPARATION

Publication
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Application
EP 21797787 A 20210430

Priority

- US 202016863682 A 20200430
- US 202016863691 A 20200430
- US 202016863698 A 20200430
- US 202016863703 A 20200430
- US 202016863706 A 20200430
- US 202016863710 A 20200430
- US 2021030315 W 20210430

Abstract (en)
[origin: WO2021222843A1] A power transmitter is configured for transmission of wireless power, to a wireless receiver, at extended ranges, including a separation gap greater than 8 millimeters (mm). The power transmitter includes a control and communications unit and an inverter circuit configured to receive input power and convert the input power to a power signal. The power transmitter further includes a coil configured to transmit the power signal to a power receiver, the coil formed of wound Litz wire and including at least one layer, the coil defining, at least, a top face. The power transmitter further includes a shielding comprising a ferrite core and defining a cavity, the cavity configured such that the ferrite core substantially surrounds all but the top face of the coil.

IPC 8 full level
H02J 50/10 (2016.01); **H01F 27/26** (2006.01); **H01F 27/28** (2006.01); **H01F 27/36** (2006.01); **H01F 38/14** (2006.01); **H02J 50/00** (2016.01); **H02J 50/12** (2016.01); **H02J 50/70** (2016.01); **H02J 50/80** (2016.01); **H04B 5/00** (2024.01); **H04B 5/43** (2024.01); **H04B 5/79** (2024.01)

CPC (source: EP)
H01F 27/2823 (2013.01); **H01F 27/366** (2020.08); **H01F 38/14** (2013.01); **H02J 50/12** (2016.02); **H02J 50/70** (2016.02); **H02J 50/80** (2016.02); **H04B 5/43** (2024.01); **H04B 5/79** (2024.01)

Citation (search report)

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- [Y] US 2006209487 A1 20060921 - SCHMIDT JOSEF [DE], et al
- [A] US 2017331335 A1 20171116 - BROOKS ROBERT C [US], et al
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- See also references of WO 2021222843A1

Designated contracting state (EPC)
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