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Declarations under Rule 4.17:
— as to applicant’s entitlement to apply for and be granted a patent (Rule 4.17(H1))
— as to the applicant’s entitlement to claim the priority of the earlier application (Rule 4.17(in))

[Continued on next page]

(54) Title: TRANSFER FUNCTION GENERATION BASED ON PULSE-WIDTH MODULATION INFORMATION

(57) Abstract: Exemplary embodiments are related to generating an error correction voltage and/or a compensation voltage based upon pulse-width modulation information. A device may include a pulse-width modulator configured to receive a first input voltage and convey a modulated output voltage. The device may also include a filtering unit including at least one filter configured to receive the modulated output voltage, generate at least one of an error correction voltage and a compensation voltage, and convey a second input voltage to the pulse-width modulator based on at least one of the error correction voltage and a compensation voltage.
Published:
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**International application No**

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**A. CLASSIFICATION OF SUBJECT MATTER**

INV. H02M 3/156

ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

H02M G05F

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**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
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<th>Category</th>
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**Date of the actual completion of the international search**

29 January 2015

**Date of mailing of the international search report**

18/02/2015

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Further documents are listed in the continuation of Box C. See patent family annex.
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