



(54) **NFC DEVICE AND METHOD FOR WIRELESS POWER TRANSFER**

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(57) **ABSTRACT**

The present disclosure relates to an NFC device configured for wireless power transfer, the NFC device comprising an antenna, a frontend circuit coupled to the antenna, a microcontroller coupled to the frontend circuit, the microcontroller comprising an analog-to-digital converter. The analog-to-digital converter is configured to receive an analog amplitude and/or phase signal from the frontend circuit, and to convert the analog signal into a digital signal. The microcontroller is configured to process the digital signal in order to detect a variation in the amplitude and/or phase of the analog signal, so as to detect a change of impedance within the field of the NFC device.

