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(54) **COMPENSATING POWER AMPLIFIER DISTORTION**

(71) Applicant: **Nokia Technologies Oy**, Espoo (FI)

(72) Inventors: **Samad ALI**, Oulu (FI); **Oskari TERVO**, Oulu (FI); **Esa Tapani TIIROLA**, Oulu (FI); **Kari Pekka PAJUKOSKI**, Oulu (FI)

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(57) **ABSTRACT**  
Disclosed is a method comprising selecting (401), by a base station, a power amplifier distortion model from a set of power amplifier distortion models, wherein the power amplifier distortion model comprises a pre-trained machine learning model configured to compensate power amplifier distortion. The method further comprises receiving (402), by the base station, one or more uplink data transmissions from a terminal device, and compensating (403), by the base station, at least a part of the power amplifier distortion from the one or more uplink data transmissions based at least partly on the power amplifier distortion model.

