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(54) **DEVICE AND METHOD FOR ENCODING OR
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POLAR CODE**

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(71) Applicant: **Huawei Technologies Co., Ltd.**,
Shenzhen (CN)

(72) Inventors: **Valerio BIOGLIO**, Boulogne
Billancourt (FR); **Carlo CONDO**,
Munich (DE)

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ABSTRACT

A device is configured for encoding an input sequence comprising message bits into a codeword using a polar code. The device is configured to sequentially encode each of a plurality of blocks of the input sequence by applying a sliding window to the input sequence, wherein each block of the input sequence is encoded based on an XOR operation of the block and a previous block of the input sequence to obtain a codeword block of the codeword, and sequentially output each obtained codeword block of the codeword.

