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(43) **Pub. Date: Jul. 20, 2023**(54) **ELECTRONIC DEVICE FOR  
TRANSMITTING SOUNDING REFERENCE  
SIGNAL IN WIRELESS COMMUNICATION  
SYSTEM AND OPERATING METHOD  
THEREOF****Publication Classification**(51) **Int. Cl.**  
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**Hyunseok YU**, Suwon-si (KR)(73) Assignee: **SAMSUNG ELECTRONICS CO.,  
LTD.**, Suwon-si (KR)(21) Appl. No.: **18/097,944**(22) Filed: **Jan. 17, 2023**(30) **Foreign Application Priority Data**Jan. 18, 2022 (KR) ..... 10-2022-0007451  
Jun. 24, 2022 (KR) ..... 10-2022-0077816(57) **ABSTRACT**

An electronic device including a communication circuit configured to receive a reception signal including an interference signal, and to transmit a sounding reference signal (SRS) to a base station; and a control circuit comprising an interference estimation circuit configured to detect the interference signal in the reception signal, and a precoding matrix calculation circuit configured to generate an SRS precoding matrix corresponding to the SRS, based on a detection result obtained by the interference estimation circuit, wherein the control circuit is configured to control the communication circuit to transmit the SRS to the base station, and wherein the SRS is generated by multiplying a transmission signal by the SRS precoding matrix.

