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(71) Applicant: **FUTUREWEI TECHNOLOGIES, INC.**
[US/US]; 15851 Dallas Parkway, Suite 650, Addison, Texas
75001 (US).

(72) Inventors: **DESAI, Vipul**; 1092 N Penny Lane, Palatine,
Illinois 60067 (US). **CLASSON, Brian**; 4128 Holland Drive,
St. Pete Beach, Florida 33706 (US).

(74) Agent: **ZOU, Hong**; Slater Matsil, LLP, 17950 Preston
Road, Suite 1000, Dallas, Texas 75252 (US).

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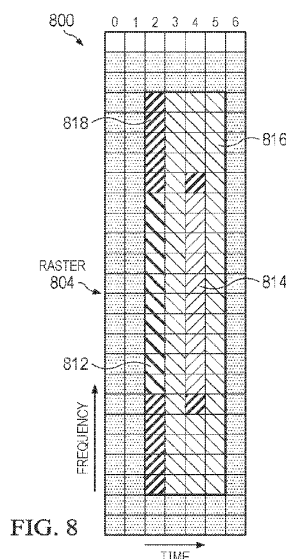
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(54) Title: METHOD AND APPARATUS FOR DETERMINING SYNCHRONIZATION SIGNAL BLOCK LOCATIONS FOR SMALL BANDWIDTH CHANNELS



(57) Abstract: A base station generates a punctured synchronization signal block (SSB) for a channel of a frequency band based on a SSB. A bandwidth of the SSB exceeds a bandwidth of the channel. The punctured SSB includes a punctured physical broadcast channel (PBCH), a primary synchronization signal (PSS), and a secondary synchronization signal (SSS). The PSS of the punctured SSB has a center frequency indicated by a sync raster location of a set of sync raster locations associated with the frequency band. The punctured PBCH is obtained from a PBCH of the first SSB based on a puncture pattern associated with the sync raster location. The base station transmits the punctured SSB in the channel. A user equipment (UE) detects the punctured SSB according to the sync raster location.

WO 2023/122806 A2

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