

BASE STATION DEVICE, MOBILE STATION DEVICE AND
SYNCHRONIZATION CHANNEL TRANSMISSION METHOD

ABSTRACT

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A base station apparatus is disclosed for use
in a mobile communication system including multiple cells
having multiple sectors. The base station apparatus
includes a synchronization channel generation unit
10 configured to generate a synchronization channel for use
in cell search by a user apparatus and a transmitting
unit configured to wirelessly transmit a signal including
the synchronization channel. The synchronization
channel includes a primary synchronization channel and
15 a secondary synchronization channel. The primary
synchronization channel includes multiple types of
sequences, and the secondary synchronization channel
transmitted in a sector of a cell includes a code derived
from a predefined generation polynomial equation
20 corresponding to the primary synchronization channel.

Figure 9A