Matsushita Electric Corporation of America

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4/20/99

April 13, 1999
KM499-U003A
731 Confirmation No: EA93293

Federal Communications Commission
Equipment Authorization Division
7435 Oakland Mills Road
Columbia, MD. 21046

7124

Attn: Mr. Joseph Dichose, Electronics Engineer

Subject: Supplement to Original Application for 25 Channel Cordless Telephone System
Matsushita Electric Industrial Co., Ltd. / FCC ID: ACJ96NKX-TC1000

Dear Mr. Dichoso:

This is in response to your email message dated April 9, 1999 regarding request for additional information, pursuant to §§15.214(d) and 15.233(b)(1)(2). Please note following responses:

1. This cordless telephone system's base unit uses 4-bit chip and handset unit uses 8-bit chip that provides up to 1,000,000 randomly selected digital security codes that gets reset each time this device goes back on-hook to provide protection against unintentional going-off hook and making contact to the telephone network.

2. This cordless telephone system uses paired channels 16-25 in accordance with channel and frequency table in §15.233(b)(2)(ii).

3. This cordless telephone system is provided with an automatic channel selection mechanism that will prevent establishment of a link on any occupied frequency for channels 1-15. Refer to the attached Appendix with factory provided "Description of Automatic Channel Selection of New 15 Channels."

Should you have any additional questions or comments, please contact the undersigned. Thank you for your time and consideration in this matter.

Sincerely yours,

Richard Mullen
Project Manager

cc: K. Nawata / KME-KM4

Mullen, Richard

From: oetech@fccsun07w.fcc.gov
Sent: Friday, April 09, 1999 1:38 PM
To: mullenr@panasonic.com
Subject: tx

KM499-41003

To: Richard Mullen, Matsushita Electric Corporation of America
From: Joe Dichoso
jdichoso@fcc.gov
FCC Application Processing Branch

Re: FCC ID ACJ96NKX-TC1000
Applicant: Matsushita Electric Industrial Co Ltd
Correspondence Reference Number: 7124
731 Confirmation Number: EA93293
Date of Original E-Mail: 04/09/1999

1) Indicate compliance with Section 15.214(d). DIGITAL SECURITY CODE / 65 K CODES

2)Indicate compliance with Section 15.233(b)1 and Section 15.233(b)2. For Section 15.233(b)2 provide tests and test procedure verifying the automatic channel selection feature.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 60 days of the original e-mail date may result in application dismissal pursuant to Section 2.917 (c) and forfeiture of the filing fee pursuant to section 1.1108.

DO NOT reply to this e-mail by using the Reply button. In order for your response to be processed expeditiously, you must upload your response via the Internet at www.fcc.gov, Electronic Filing, OET Equipment Authorization Electronic Filing. If the response is submitted through Add Attachments, in order to expedite processing, a message which informs the processing staff that a new exhibit has been submitted must also be submitted via Submit Correspondence. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.

DESCRIPTION OF AUTOMATIC CHANNEL SELECTION ON NEW 15 CHANNELS

1. DESCRIPTION OF OUTGOING CALL SETUP SEQUENCE

A. The base unit continuously scans the handset's Tx frequencies of the 10 channels (a).
Also, the base unit scans the handset's Tx frequencies of the 15 new channels (b), until a vacant (unoccupied) channel is found.

a. The base unit stores the number of the vacant (b) channel, and the status of all 10 (a) channels into memory.

1. When the user pushes the TALK button, the handset send a TALK ACK request to the unit on the handset's (a) Tx frequency.

2. The base unit sends an ACK OK to the handset on the base unit's (a) Tx frequency.

a. This ACK OK includes the number of 2 vacant channels. One vacant (a) channel and the vacant (b) channel selected and stored in step Aa.

3. The handset checks the handset's Rx frequency of the vacant (b) channel selected and stored in step Aa. If this channel is vacant then the handset proceeds to step 4a, if this channel is not vacant then the handset proceeds to step 4b.

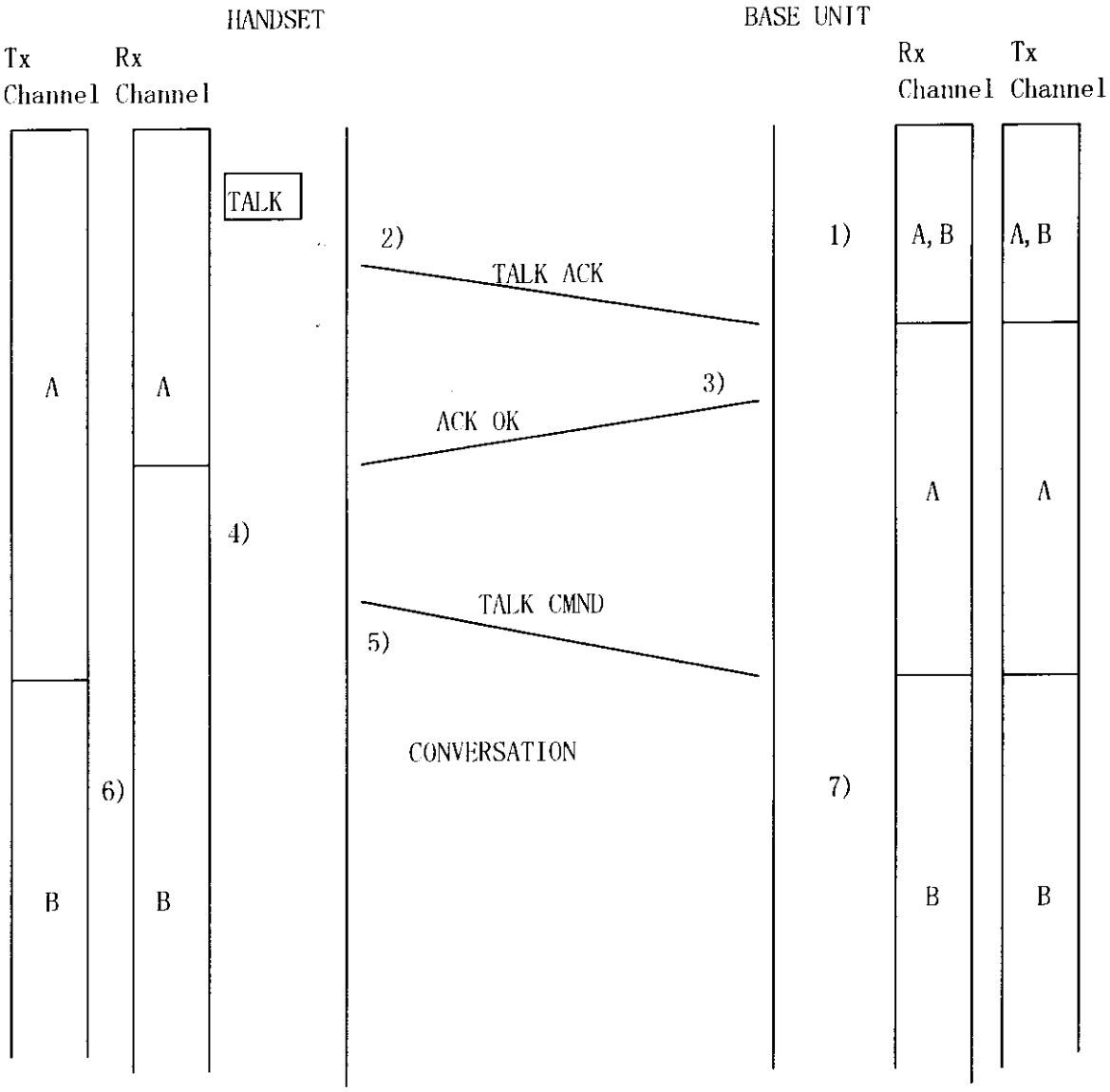
4. a. The handset sends a TALK COMMAND includes the number of the vacant (b) channel selected and stored in step Aa. This TALK COMMAND is sent on the handset's (a) Tx frequency.
After sending the TALK COMMAND, the handset changes to the vacant (b) channel.
Then, the base unit seizes the telephone line and changes to the vacant (b) channel.

b. The handset sends a TALK COMMAND. This TALK COMMAND includes the number of the vacant (a) channel selected in step 2a. This TALK COMMAND is sent on the handset's (a) Tx frequency.
After sending the TALK COMMAND, the base unit seizes the telephone line.
(The base unit and handset have been communicating on an (a) channel since step 1, therefore they both remain on that (a) channel.)

5. Dial tone is heard.

NOTE: Channel (a) : 16 ~ 25 Channel
Channel (b) : 1 ~ 15 Channel (New Channels)

OUTGOING CALL MODE (STANDBY --> TALK):



NOTE: A: 16 ~ 25 Channel
B: 1 ~ 15 Channel (New)

2. DESCRIPTION OF INCOMING CALL SETUP SEQUENCE

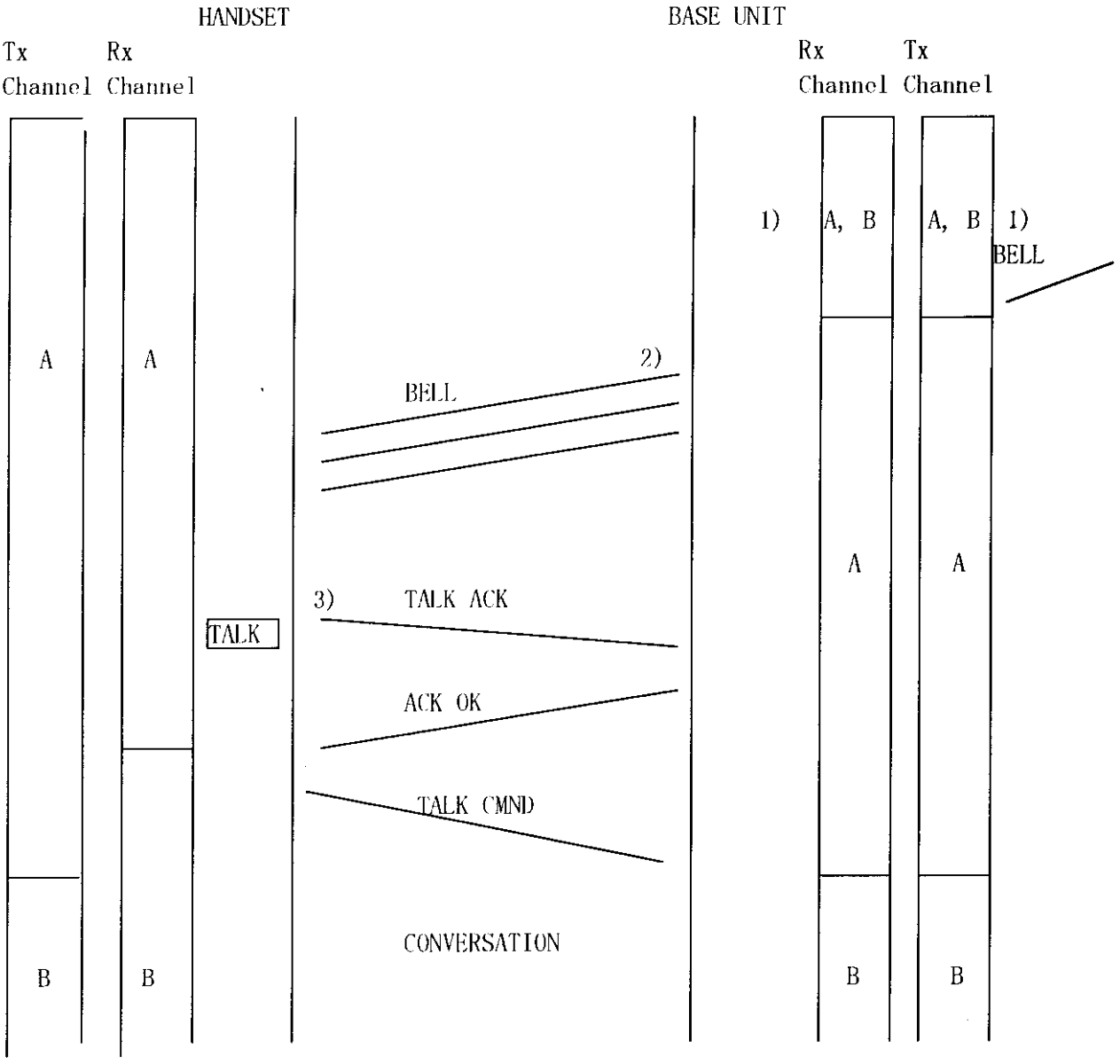
A. The base unit continuously scans the handset's Tx frequencies of the 10 original channels (a). Also, the base unit scans the handset's Tx frequencies of the 15 new channels (b), until a vacant (b) channel is found.

   a. The base unit stores the number of the vacant (b) channel, and the status of all 10 (a) channels into memory.

B. When a ringing signal is received from the telephone network, the base unit sends a BELL command to the handset on the base unit's (a) Tx frequency. Each BELL command is approx 100ms in duration and are continuously transmitted while the ringing from the network continues. The handset rings until the BELL commands cease.

C. See steps 2 through 5 on the DESCRIPTION OF THE OUTGOING CALL SETUP SEQUENCE.

INCOMING CALL MODE:



NOTE: A: 16 ~ 25 Channel
B: 1 ~ 15 Channel (New)