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7   SUMIT ROY, PH.D.

8   MONDAY, DECEMBER 6, 2021

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21   Job No. 258664

22   Reported by: Cindy L. Sebo, RMR, CRR, RPR, CLR,

23   CCR, CSR, RSA, NYRCR, NYACR, California CSR No.

24   14409, Remote Counsel Reporter, LiveDeposition

25   Authorized Reporter

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2   approaches, you know, that we discussed,

3   Li takes advantage of OFDMA's ability to

4   allocate different subchannels to multiple

5   users. And in this case Li's teaching is

6   to apply different OFDM symbol durations

7   to different subscribers to -- to

8   ameliorate the -- the problem --

9   BY MR. SCHMIDT:

10   **Q.**   And then -- go ahead.

11   **A.**   -- so I was going to say that, you

12   know, the specific example is -- there's a

13   figure copied from Li and quoted, and so I'll

14   just complete by reading Paragraph 99 and 100.

15   [as read] ***Specifically, Li teaches that the

16   system could transmit to the fast subscriber two

17   OFDMA symbols in two slots with symbol

18   duration -- half the symbol duration, two sub C

19   each, so Li discloses a system high mobility

20   users with a shorter symbol period than -- than,

21   you know, the -- the baseline system.

22   **Q.**   Would a shorter symbol period also

23   imply that you will get more pilot signal

24   symbols per unit of time?

25   MR. DETRIXHE: Same objection.

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2 Form.

3 THE WITNESS: So depending on how

4 you -- there's a nuance how you framed

5 that question, yes, because if we mean by

6 density, you know, the number of pilot

7 symbols we are unit time -- so let's say

8 I have two designs in which I have a

9 symbol duration T and then I have a

10 symbol duration T by two, if I keep the

11 same number of pilots in the T symbol

12 duration compared to the T by 2 I would

13 get more pilots per unit time but per

14 symbol duration the number of pilots are

15 the same, so.

16 BY MR. SCHMIDT:

17 Q. A POSITA would have understood that

18 at the time of Li?

19 A. The POSITA would have understood

20 that, yes.

21 Q. Okay. So do you have the

22 Li reference in front of you?

23 A. Let me see.

24 Q. Li is patent application ending in

25 387. Exhibit 1016.

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