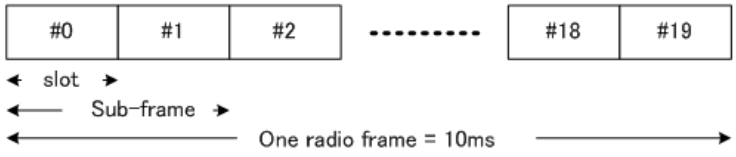
# *Amended*

# *Exhibit 10*

# Exhibit 10
# Claim 7 of U.S. Patent No. 10,44

U.S. Patent No. 10,447,450: Claim 7(a)

"7. A mobile device in a wireless packet system using a frame structure of multiple frames for transmission, each frame intervals, each time interval comprising a plurality of orthogonal frequency division multiplexing (OFDM) symbols, and e plurality of frequency subcarriers, the mobile device configured to"

| | |
|---|---|
| 7. A mobile device in a wireless packet system using a frame structure of multiple frames for transmission, each frame comprising a plurality of time intervals, each time interval comprising a plurality of orthogonal frequency division multiplexing (OFDM) symbols, and each OFDM symbol containing a plurality of frequency subcarriers, the mobile device configured to: | Tesla's Accused Products include vehicles equipped with components and/o to 4G/LTE networks and services, including services sold and provided by T<br><br>To the extent the preamble is considered a limitation, Tesla's Accused Produ patent. *E.g.,*<br><br>For clarity, release 8 of the 36 series 3GPP specifications was frozen in Dece used as the basis for the first wave of LTE equipment. The LTE marketplace releases from Release 8 through Release 17. Though for ease of review relea cited below, the same or functionally identical content exists in each corresp<br><br>5 Physical Layer for E-UTRA<br><br>Downlink and uplink transmissions are organized into radio frames with 10 ms duration. Two radi supported:<br><br>- Type 1, applicable to FDD,<br>- Type 2, applicable to TDD.<br><br>Frame structure Type 1 is illustrated in Figure 5.1-1. Each 10 ms radio frame is divided into ten eq frames. Each sub-frame consists of two equally sized slots. For FDD, 10 subframes are available f transmission and 10 subframes are available for uplink transmissions in each 10 ms interval. Uplin transmissions are separated in the frequency domain.<br><br>  <br><br>**Figure 5.1-1: Frame structure type 1**<br><br>Frame structure Type 2 is illustrated in Figure 5.1-2. Each 10 ms radio frame consists of two half Each half-frame consists of eight slots of length 0.5 ms and three special fields: DwPTS, GP and DwPTS and UpPTS is configurable subject to the total length of DwPTS, GP and UpPTS being eq and 10ms switch-point periodicity are supported. Subframe 1 in all configurations and subframe 6 5ms switch-point periodicity consist of DwPTS, GP and UpPTS. Subframe 6 in configuration w periodicity consists of DwPTS only. All other subframes consist of two equally sized slots.<br><br>For TDD, GP is reserved for downlink to uplink transition. Other Subframes/Fields are assigned |

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| | *See e.g.*, 3GPP TS 36.300 V8.12.0 at pg. 23.<br><br>The LTE downlink uses orthogonal frequency division multiplexing (OFDM OFDM symbols are transmitted.<br><br>5.1 Downlink Transmission Scheme<br><br>5.1.1 Basic transmission scheme based on OFDM<br><br>The downlink transmission scheme is based on conventional OFDM using a cyclic prefix. Th spacing is $\Delta f = 15$ kHz. 12 consecutive sub-carriers during one slot correspond to one downli frequency domain, the number of resource blocks, $N_{RB}$, can range from $N_{RB\text{-}min} = 6$ to $N_{RB\text{-}max}$<br><br>In addition there is also a reduced sub-carrier spacing $\Delta f_{low} = 7.5$ kHz, only for MBMS-dedica<br><br>In the case of 15 kHz sub-carrier spacing there are two cyclic-prefix lengths, corresponding t symbols per slot respectively.<br><br>- Normal cyclic prefix: $T_{CP} = 160 \times Ts$ (OFDM symbol #0), $T_{CP} = 144 \times Ts$ (OFDM symb<br><br>*See e.g.*, 3GPP TS 36.300 V8.12.0 at pg. 25.<br><br>A subframe contains two slots, and in each slot multiple OFDM symbols are includes a plurality of subcarriers. |

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| | 6.2 Slot structure and physical resource elements<br><br>6.2.1 Resource grid<br><br>The transmitted signal in each slot is described by a resource grid of $N_{RB}^{DL} N_{sc}^{RB}$ subcarriers an<br>The resource grid structure is illustrated in Figure 6.2.2-1. The quantity $N_{RB}^{DL}$ depends on the bandwidth configured in the cell and shall fulfil<br><br>$$N_{RB}^{min,DL} \le N_{RB}^{DL} \le N_{RB}^{max,DL}$$<br><br>where $N_{RB}^{min,DL} = 6$ and $N_{RB}^{max,DL} = 110$ are the smallest and largest downlink bandwidth, resp current version of this specification.<br><br>*See e.g.*, 3GPP TS 36.211 V8.9.0 at pg. 45. |

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