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(71) Applicant: **HUAWEI TECHNOLOGIES CO., LTD.**
[CN/CN]; Huawei Administration Building Bantian, Long-
gang District, Shenzhen, Guangdong 518129 (CN).

(72) Inventor; and

(71) Applicant (for MN only): **TSODIK, Genadiy** [IL/DE];
Huawei Technologies Duesseldorf GmbH, Riesstr. 25,
80992 Munich (DE).

(72) Inventors: **SHILO, Shimon**; Huawei Technologies Dues-
seldorf GmbH, Riesstr. 25, 80992 Munich (DE). **EZRI,**
Doron; Huawei Technologies Duesseldorf GmbH, Riesstr.
25, 80992 Munich (DE). **MELZER, Ezer**; Huawei Tech-
nologies Duesseldorf GmbH, Riesstr. 25, 80992 Munich
(DE). **REDLICH, Oded**; Huawei Technologies Duesseld-
orf GmbH, Riesstr. 25, 80992 Munich (DE).

(74) Agent: **HUAWEI EUROPEAN IPR**; Huawei Technolo-
gies Duesseldorf GmbH, Riesstr. 25, 80992 Munich (DE).

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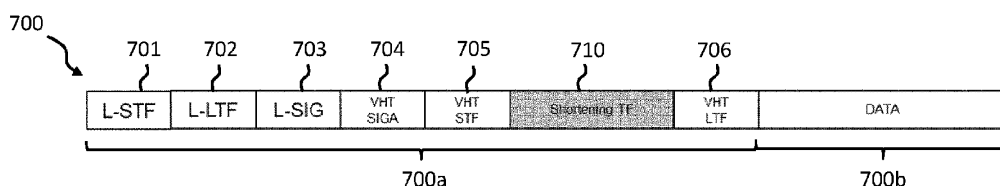


Fig. 7a

(57) Abstract: A Wi-Fi transmitter station (110; 120) for robust, yet efficient orthogonal frequency division multiplexing, OFDM, based communication with a Wi-Fi receiver station (120; 110) via a wireless channel (130) is disclosed. The Wi-Fi transmitter station (110; 120) is configured to generate a signal carrying a physical-layer protocol data unit, PPDU, wherein the PPDU comprises a preamble part and a data part, and wherein the signal carrying the PPDU is modulated over a plurality of subcarriers spanning a plurality of OFDM symbols. Moreover, the Wi-Fi transmitter station (110; 120) is configured to transmit the signal to the Wi-Fi receiver station (120; 110), wherein the preamble part of the PPDU further comprises a dedicated field comprising one or more OFDM symbols with a guard interval, GI, duration larger than a GI duration of the plurality of OFDM symbols of the data part. The Wi-Fi receiver station (120; 110) is configured to receive the signal with the PPDU.

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