



(10) **Number:** US RE47.720 C1

(45) **Certificate Issued:** Aug. 26, 2025

(52) U.S. Cl.

CPC **H04W 52/343** (2013.01); **H04B 7/0408**
(2013.01); **H04B 7/12** (2013.01); **H04W**
52/225 (2013.01); **H04W 52/42** (2013.01)

(58) **Field of Classification Search**

None

See application file for complete search history.

(56) **References Cited**

To view the complete listing of prior art documents cited during the proceeding for Reexamination Control Number 90/019,702, please refer to the USPTO's Patent Electronic System.

No. 90/019,702, Oct. 14, 2024

Primary Examiner — Matthew E Heneghan

Patent No.: **Re. 47,720**

Issued: **Nov. 5, 2019**

Appl. No.: **15/898,404**

Filed: **Feb. 16, 2018**

Related U.S. Patent Documents

Reissue of:

(64) Patent No.: **7,483,711**

Issued: **Jan. 27, 2009**

Appl. No.: 10/689,763

Filed: **Oct. 22, 2003**

Related U.S. Application Data

(60) Provisional application No. 60/420,930, filed on Oct. 24, 2002.

(51) **Int. Cl.**

H04W 52/34

(2009.01)

H04B 7/0408

(2017.01)

H04B 7/12

(2006.01)

H04W 52/22

(2009.01)

H04W 52/42

(2009.01)



1

**EX PARTE
REEXAMINATION CERTIFICATE**

NO AMENDMENTS HAVE BEEN MADE TO
THE PATENT

AS A RESULT OF REEXAMINATION, IT HAS BEEN
DETERMINED THAT:

The patentability of claims **53-56, 64-66, 70, 76, 81-84**
and **87-94** is confirmed.

Claims **1-52, 57-63, 67-69, 71-75, 77-80, 85, 86, 95** and
96 were not reexamined.

53. *A method for managing interference in a radio com-
munications network, comprising the steps of:*

*receiving at a first node in the radio communications
network an instruction transmitted from a second node
in the radio communications network to avoid using a
plurality of frequencies to transmit to the second node;*

*filtering a transmission signal to remove power from the
transmission signal at each frequency in the plurality of
frequencies to be avoided;*

*transmitting the filtered transmission signal to the second
node;*

2

*receiving a compressed first feedback from the second
node that characterizes receipt of a first signal sent
from the first node to the second node;*

*receiving a compressed second feedback from a third node
that characterizes receipt of a second signal sent from
the first node to the third node;*

*decompressing the compressed first feedback resulting in
a decompressed first feedback; and*

*decompressing the compressed second feedback resulting
in a decompressed second feedback;*

*wherein the filtered transmission signal is a filtered first
transmission signal that is transmitted to the second
node using an 802.11-based orthogonal frequency-
division multiplexing (OFDM) protocol via at least one
antenna of a plurality of antennas, using a first power
that is based on the decompressed first feedback; and
further comprising:*

*transmitting, using the 802.11-based OFDM protocol, a
filtered second transmission signal, simultaneously
with the filtered first transmission signal, to the third
node using a second power that is based on the
decompressed second feedback.*

* * * * *