

Title (en)

MIMO (MULTIPLE-INPUT, MULTIPLE-OUTPUT) INTER-STREAM INTERFERENCE CANCELLATION

Title (de)

MIMO (MEHRFACHEINGANG, MEHRFACHAUSGANG)-INTERFERENZUNTERDRÜCKUNG ZWISCHEN DATENSTRÖMEN

Title (fr)

ANNULATION DE BROUILLAGE INTER-FLUX MIMO (ENTRÉES MULTIPLES ET SORTIES MULTIPLES)

Publication

**EP 3788722 A4 20210818 (EN)**

Application

**EP 18922424 A 20180613**

Priority

US 2018037306 W 20180613

Abstract (en)

[origin: WO2019240790A1] Apparatuses, methods, and systems for MIMO inter-stream interference cancellation are disclosed. One method includes determining a channel matrix between a plurality of transmitting antennas of a transmitter and a plurality of receiving antennas of a receiver, determining a plurality of channel propagation delays based on a propagation delay between each of the plurality of transmitting antennas and each of the plurality of receiving antennas, preprocessing, by the transmitter, streams of symbols for each transmitting antenna for transmission based on the plurality of channel propagation delays and based on the channel matrix, and transmitting, by the transmitter, the preprocessed symbol streams through the plurality of transmitting antennas.

IPC 8 full level

**H04B 7/0456** (2017.01); **H04B 1/7115** (2018.01); **H04B 7/0413** (2017.01); **H04B 7/06** (2006.01); **H04B 7/08** (2006.01)

CPC (source: EP)

**H04B 7/0413** (2013.01); **H04B 7/0456** (2013.01); **H04B 7/0615** (2013.01); **H04B 7/0845** (2013.01); **H04B 7/0894** (2013.01)

Citation (search report)

- [X1] US 2005117660 A1 20050602 - VIALLE SANDRINE [FR], et al
- See references of WO 2019240790A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2019240790 A1 20191219**; CN 112997417 A 20210618; EP 3788722 A1 20210310; EP 3788722 A4 20210818

DOCDB simple family (application)

**US 2018037306 W 20180613**; CN 201880094648 A 20180613; EP 18922424 A 20180613