

Information on Search Strategy - Pilot phase (see OJ 2015, A86)

The type of information contained in this sheet may change during the pilot for improving the usefulness of this new service.

Application Number

PCT/US2020/020427

TITLE: LINEAR NETWORK CODING WITH PRE-DETERMINED COEFFICIENT GENERATION THROUGH PARAMETER INITIALIZATION AND REUSE

APPLICANT: CODE ON NETWORK CODING, LLC

IPC CLASSIFICATION: H04L1/00

EXAMINER: Martínez Martínez, V

CONSULTED DATABASES: EPODOC, DOSYS, WPI, INSPEC

CLASSIFICATION SYMBOLS DEFINING EXTENT OF THE SEARCH:

IPC:

CPC: H04L1/00/LOW, H03M13/00/LOW

FI/F-TERMS:

KEYWORDS OR OTHER ELEMENTS FEATURING THE INVENTION:

Intra-flow network coding of data packets at relay node. The data packets are linearly combined according to respective coefficients. In order to simplify the design of the relay, such coefficients are not generated by using a random number generator, but are obtained from predetermined parameters and functions stored in local memory. The local parameters and functions can be hard-wired within the device or obtained from the network during initialization or updated by a network management event. Coefficients may take the form of a mathematical sequence of numbers generated by the function using the parameters. For example, each coefficient (except for an initial set of one or more coefficients) may be a function of one or more previous coefficients.