

Title (en)
INFORMATION THEORY GENOMICS-ENABLED HYPER-SCALABILITY

Title (de)
GENOMIK-AKTIVIERTE HYPERSKALIERBARKEIT VON INFORMATIONSTHEORIEN

Title (fr)
HYPER-ÉVOLUTIVITÉ FAISANT APPEL À LA GÉNOMIQUE DE LA THÉORIE DE L'INFORMATION

Publication
EP 4101120 A4 20240228 (EN)

Application
EP 21750703 A 20210204

Priority
• US 202062970304 P 20200205
• US 2021016617 W 20210204

Abstract (en)
[origin: WO2021158791A1] The present disclosure relates to Information Theory-facilitated security platforms and corresponding digital genomic constructions that exhibit controlled entropy yet are subject to digital modification and reconstruction by computationally complex functions and processes without loss of genomic integrity. These constructions enable formation of comprehensively secure hyper-scalable digital ecosystems, enclaves, and/or digital cohorts having mutual identity of interests, and application specific security architectures based on genomic network topologies that are interoperable with contemporary application and networks stacks.

IPC 8 full level
H04L 9/08 (2006.01); **G06F 21/00** (2013.01); **G06F 21/57** (2013.01); **G06F 21/60** (2013.01); **G06N 3/00** (2023.01); **G06N 3/12** (2023.01); **H04L 9/32** (2006.01)

CPC (source: AU EP IL KR)
G06F 9/45558 (2013.01 - AU IL); **G06F 21/53** (2013.01 - KR); **G06F 21/577** (2013.01 - EP IL KR); **G06F 21/602** (2013.01 - EP); **G06F 21/645** (2013.01 - AU IL KR); **G06N 3/002** (2013.01 - EP IL KR); **H04L 9/002** (2013.01 - AU IL KR); **H04L 9/0852** (2013.01 - AU EP IL KR)

Citation (search report)
• [A] US 2013044876 A1 20130221 - SHAW HARRY C [US], et al
• [A] CN 102025482 A 20110420 - SOUTH CHINA BOTAN GARDEN CAS
• [A] SHAW HARRY: "A Cryptographic System Based upon the Principles of Gene Expression", CRYPTOGRAPHY, vol. 1, no. 3, 21 November 2017 (2017-11-21), pages 21, XP055847708, DOI: 10.3390/cryptography1030021
• See references of WO 2021158791A1

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

DOCDB simple family (publication)
WO 2021158791 A1 20210812; AU 2021217374 A1 20220818; CA 3169639 A1 20210812; CN 115349124 A 20221115; EP 4101120 A1 20221214; EP 4101120 A4 20240228; IL 295370 A 20221001; JP 2023513540 A 20230331; KR 20220137941 A 20221012

DOCDB simple family (application)
US 2021016617 W 20210204; AU 2021217374 A 20210204; CA 3169639 A 20210204; CN 202180023412 A 20210204; EP 21750703 A 20210204; IL 29537022 A 20220804; JP 2022548177 A 20210204; KR 20227030587 A 20210204