

PCT Recordation of Search History

Case/PCT Application Number: PCT/US20/23818

CLIN Number/Technical Field of PCT Application: 5

Dates During Which the Search was Conducted: 12 May 2020 - 29 May 2020

Date of Completion of Recordation of Search History Form: 29 May 2020

Research Analyst Initials: NJH

Search Approval Official (SAO) Initials: HKP

Field of Search/Classification Information:

IPC(8) Classifications: H04L 29/06, 29/04; G06F 21/62; G16H 50/70 (2020.01)

CPC Classifications: H04L 63/0457, 63/0421, 63/166; G06F 21/62; G16H 50/70

Databases Searched (Patent and Non-Patent Literature (NPL), Including Sub-Databases and Files Searched) and Search Terms Used:

PatSeer (US, EP, WO, JP, DE, GB, CN, FR, KR, ES, AU, IN, CA, Other Countries (INPADOC), RU, AT, CH, TH, BR, PH); Google/Google Scholar; IEEE/IEEEExplore; EBSCO Non-Patent Prior Art Source; KEYWORDS: dual, payload, network, packet, signature, public, key, authenticate, recover, hash

Database Search String Recordation, Including Dates of Searches:**Patent Database (PatSeer) Search Strategy/Results:**

| ID | Search String | Dedup | Records | Created Date |
|-----|---|-------|---------|--------------|
| L29 | tacD:((payload* or content* or data* or body*) ws10 (packet* or frame* or byte*)) and (signatur* or token*) and ((anonym* or privat* or conceal*) ws14 (ledger* or block_chain*)) and (medical* or patient* or diagnos*) and IC:(| ALL | 214 | 29-May-2020 |

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|-----|---|-----|-----|-------------|
| | H04L29/04 or H04L29/06 or G06F21/62 or G16H50/70) | | | |
| L28 | tacD:((payload* or content* or data* or body*) ws10 (packet* or frame* or byte*)) and (signatur* or token*) and ((anonym* or privat* or conceal*) ws14 (ledger* or block_chain*)) and (medical* or patient* or diagnos*) and CPC:(H04L63/*) | ALL | 227 | 29-May-2020 |
| L27 | tacD:((payload* or content* or data* or body*) ws10 (packet* or frame* or byte*)) and (signatur* or token*) and ((anonym* or privat* or conceal*) ws14 (ledger* or block_chain*)) and (medical* or patient* or diagnos*) and CPC:(G06F21/62 or G16H50/70 or H04L63/0421 or H04L63/0457 or H04L63/166) | ALL | 51 | 29-May-2020 |
| L26 | L25 not L24 | ALL | 18 | 13-May-2020 |
| L25 | tacD:(key* ws12 patient*) and ((anonym* or protect* or privac*) ws14 (data_base* or data_store* or data_repositor* or data_ware*)) and ((distributed_ledger* or ledger* or block_chain*) ws14 (anonym* or protect* or privac*)) | ALL | 30 | 13-May-2020 |
| L24 | tacD:(public_key* ws10 patient*) and ((anonym* or protect* or privac*) ws14 (data_base* or data_store* or data_repositor* or data_ware*)) and ((distributed_ledger* or ledger* or block_chain*) ws14 (anonym* or protect* or privac*)) | ALL | 12 | 13-May-2020 |
| L23 | L22 and L12 | ALL | 228 | 13-May-2020 |

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|-----|--|------|-------|-------------|
| L22 | tacD:((payload* or content* or data* or body*) ws10 (packet* or frame* or byte*)) and (signatur* or token*) and ((anonym* or privat* or conceal*) ws14 (ledger* or block_chain*)) and (medical* or patient* or diagnos*) | ALL | 679 | 13-May-2020 |
| L21 | tac:((payload* or content* or data* or body*) ws10 (packet* or frame* or byte*)) and (signatur* or token*) and ((anonym* or privat* or conceal*) ws14 (ledger* or block_chain*)) and (medical* or patient* or diagnos*) | ALL | 6 | 13-May-2020 |
| L20 | tac:(payload* or content* or data* or body*) and (packet* or frame* or byte*) and (signatur* or token*) and (anonym* or privat* or conceal*) and (ledger* or block_chain*) and (medical* or patient* or diagnos*) | ALL | 36 | 13-May-2020 |
| L19 | tac:(payload* or content* or data* or body*) and (packet* or frame* or byte*) and (signatur* or token*) and (anonym* or privat* or conceal*) and (ledger* or block_chain*) | ALL | 580 | 13-May-2020 |
| L18 | tac:(payload* or content* or data* or body*) and (packet* or frame* or byte*) and (signatur* or token*) and CPC:(G06F21/62 or G16H50/70 or H04L63/0421 or H04L63/0457 or H04L63/166) | ALL | 475 | 13-May-2020 |
| L17 | tac:(payload* or content* or data* or body*) and (packet* or frame* or byte*) and (signatur* or token*) | ALL | 51716 | 13-May-2020 |
| L16 | tacD:dual_payload* and signatur* and hash* | SFAM | 1 | 13-May-2020 |

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|-----|---|-----|--------|-------------|
| L15 | tac:dual_payload* and signatur* and hash* | ALL | 0 | 13-May-2020 |
| L14 | tac:payload* and L9 | ALL | 0 | 13-May-2020 |
| L13 | tac:dual_payload* and L9 | ALL | 0 | 13-May-2020 |
| L12 | L10 or L11 | ALL | 740557 | 12-May-2020 |
| L11 | CPC:(G06F21/62 or G16H50/70 or H04L63/0421 or H04L63/0457 or H04L63/166) | ALL | 43310 | 12-May-2020 |
| L10 | IC:(H04L29/04 or H04L29/06 or G06F21/62 or G16H50/70) | ALL | 718670 | 12-May-2020 |
| L9 | L6 or L7 or L8 | ALL | 51 | 12-May-2020 |
| L8 | INV:(jibaja w2 hank) or (neil w2 jack) | ALL | 32 | 12-May-2020 |
| L7 | CASN:(nephron_pharm*) | ALL | 19 | 12-May-2020 |
| L6 | ASN:(nephron_pharm*) | ALL | 17 | 12-May-2020 |
| L5 | tac:pay_load* and signatur* and hash* and medical* | ALL | 9 | 12-May-2020 |
| L4 | tac:payload* and signatur* and hash* and medical* | ALL | 9 | 12-May-2020 |
| L3 | tacD:dual_payload* and signatur* and hash* | ALL | 8 | 13-May-2020 |
| L2 | tacD:medical* and dual_payload* and signatur* and hash* | ALL | 0 | 12-May-2020 |

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|----|---|-----|---|-----------------|
| L1 | fac:medical* and dual_payload* and signatur* and hash* | ALL | 0 | 12-May- 2020 |
|----|---|-----|---|-----------------|

Non-Patent Literature (NPL) Search Strategy/Results:

12 May 2020

Google/Google Scholar:

- network packet comprising a first digital signature and a dual payload
- authenticating by recovering dual payload from the first digital signature
- inserting anonymous data into a patient record for a privacy-compliant database

IEEE/IEEEXplore:

- network packet comprising a first digital signature and a dual payload
- authenticating by recovering dual payload from the first digital signature
- inserting anonymous data into a patient record for a privacy-compliant database

EBSCO:

- network packet comprising a first digital signature and a dual payload
- authenticating by recovering dual payload from the first digital signature
- inserting anonymous data into a patient record for a privacy-compliant database