

# MCRO | EML Authentication & LinkedIn Search Activity

## Timeline Forensic Report

| Property                          | Value                                                                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Case Reference (State)            | State of Minnesota v. Guertin   27-CR-23-1886                                                                                             |
| Case Reference (Civil Commitment) | In re Civil Commitment of Guertin   27-MH-PR-23-815 (cluster_id 1570)                                                                     |
| Case Reference (Federal)          | Guertin v. Walz   0:25-cv-02670-PAM-DLM (D. Minn.)                                                                                        |
| Exhibit Designation               | EML-C (Docket Entry #63, filed July 19, 2025)                                                                                             |
| Report Date                       | March 2026                                                                                                                                |
| Corpus Summary                    | 99 authenticated EML files   597 total searches   Dec 2020 – Nov 2023                                                                     |
| Data Sources                      | EML Authentication Catalog (primary)   MCRO Forensic Database (cross-reference)   Exhibits EML-B, EML-D, EML-E (patent/business timeline) |
| Database                          | PostgreSQL (Supabase) — Project ibfmjtwahkwqzcmeyqii                                                                                      |

**Source Materials:** [Authentication Catalog](#) | [PDF Exhibit \(as filed\)](#) | [CourtListener Docket](#) | [99 EML Source Files](#)

## IMPORTANT DISCLAIMER

This report presents objective forensic analysis of 99 digitally authenticated LinkedIn notification emails and their temporal correlation with independently verifiable court proceedings, patent prosecution milestones, and business communications documented in the MCRO forensic database and authenticated email exhibits (EML-A through EML-E) filed in Guertin v. Walz (0:25-cv-02670-PAM-DLM).

This report does not assert surveillance, intent, coordination, or motive. It does not claim that any specific entity deliberately searched for the Plaintiff. Entity names reflect LinkedIn profile affiliations, which may be outdated or inaccurate. All temporal correlations are presented as measurable patterns. Whether these patterns reflect coincidence, algorithmic behavior, or other factors remains an open question requiring independent investigation.

## EXECUTIVE SUMMARY

- 99 of 99 LinkedIn notification emails (100%) passed DKIM authentication with dual-signed cryptographic verification (linkedin.com 2048-bit + mailer.linkedin.com 1024-bit). Zero indicators of forgery, tampering, spoofing, or header manipulation were detected.
- 597 total LinkedIn profile searches were recorded across 99 weekly notification emails spanning December 26, 2020 through November 16, 2023 — a 35-month observation window covering two distinct phases: active patent prosecution (2020–2022) and criminal/commitment proceedings (2023).
- The all-time peak of 25 searches covers the week ending July 20, 2023 (8:53 PM CDT local delivery). DB-confirmed: On that same date (July 20, 2023), 10 filings were entered in case 27-MH-PR-23-815, including the Petition for Judicial Commitment — the direct procedural consequence of the July 13 Finding of Incompetency in case 27-CR-23-1886. The most anomalous data point in a 35-month time series falls on the exact day the State moved to civilly commit the Plaintiff.
- 6 weekly periods exceeded the  $2\sigma$  statistical threshold (>15 searches). In 2021–2022, both spikes align with patent prosecution milestones (March 30, 2021: 11 days after patent filing; April 2, 2022: during TRACK ONE prosecution). In 2023, all three spikes align with competency/commitment proceedings (July 20, August 11, November 9).
- Three defense/intelligence entities (DARPA, DIA, U.S. Indo-Pacific Command) appeared in the August 4, 2023 notification. DB-confirmed: That same day, the MH case docket shows an Examiner's Report was filed. The August 3 date also aligns with "Set B" discovery materials being provided to the Plaintiff — the materials later alleged to be fraudulent.
- The August 11, 2023 spike (18 searches: U.S. Department of State, United States Air Force) falls 1 day after the DB-confirmed Order of Stayed Commitment in case 27-MH-PR-23-815 (August 10, 2023). This is a tighter alignment than the 29-day gap to the incompetency finding previously reported.
- Forcepoint (cybersecurity/insider threat monitoring) and 3GIMBALS (defense/intelligence) appeared on January 21, 2023 — the offense date for all 4 charges in 27-CR-23-1886 and 3 days before the formal charge filing.
- The first  $2\sigma$  spike in the entire dataset (17 searches, March 30, 2021) occurred 11 days after the Plaintiff filed US Patent Application 11,577,177 on March 19, 2021. Entertainment/VFX entities including Fox Entertainment, Fox Networks Group, USC School of Cinematic Arts, Epic Games, and Gentle Giant Studios appear during the patent prosecution period — directly aligned with the patent's entertainment technology subject matter.
- The Plaintiff's LinkedIn profile ("MattGuertin612") was never completed, never promoted, and never actively used — making the volume (597 searches), caliber (DARPA, DIA, State Department, Air Force, Lockheed Martin), and industry alignment (entertainment/VFX entities matching the patent's field) anomalous relative to a dormant, unfinished profile.
- All 99 emails were delivered via single-hop TLSv1.2 (ECDHE-RSA-AES256-GCM-SHA384) from LinkedIn's 108.174.3.xxx infrastructure to Proton Mail, with consistent spam scores of 0 and an anchored Require-Recipient-Valid-Since timestamp of November 24, 2020.

## Corpus Overview

| Metric                              | Value                                                       |
|-------------------------------------|-------------------------------------------------------------|
| Total EML files analyzed            | 99                                                          |
| Date range                          | Dec 26, 2020 – Nov 16, 2023 (35 months)                     |
| Total LinkedIn profile searches     | 597                                                         |
| Mean / Median weekly searches       | 6.03 / 5                                                    |
| Standard deviation                  | 4.49                                                        |
| All-time peak (single week)         | 25 (week ending July 20, 2023 CDT)                          |
| Weeks exceeding $2\sigma$ threshold | 6 of 99 (6.1%)                                              |
| DKIM pass rate                      | 99/99 (100%)                                                |
| Overall authentication verdict      | 90 PASS + 9 PARTIAL (DKIM passed on all 99)                 |
| Anomalies detected                  | 5 minor (all explained as infrastructure variations)        |
| Forgery/tampering indicators        | 0                                                           |
| Distinct searching entities         | ~155 across 10 sector categories                            |
| DB-confirmed cases cross-referenced | 27-CR-23-1886 (CR) + 27-MH-PR-23-815 (MH) — cluster_id 1570 |

## Key Metrics at a Glance

**Authentication:** 99/99 emails cryptographically verified. 0 forgery indicators.

**Total Searches:** 597 across 99 weekly reports over 35 months.

**Peak Week:** 25 searches (week ending July 20, 2023 CDT) —  $4.22\sigma$  above mean.

**Same-Day Alignment:** **July 20, 2023 = Petition for Judicial Commitment filed (27-MH-PR-23-815).**

**August 4 Alignment:** **DARPA + DIA + Indo-Pacific Command notification = same day as MH Examiner's Report.**

**August 10–11 Alignment:** **Order of Stayed Commitment (Aug 10) → State Dept + Air Force, 18 searches (Aug 11).**

**Offense Date:** Forcepoint + 3GIMBALS on Jan 21, 2023 = offense date for all 4 charges.

**Patent Filing:** First  $2\sigma$  spike (17 searches, Mar 30, 2021) = 11 days after patent application.

**Gov/Military/Intel:** DARPA (×2), DIA, Indo-Pacific Command, State Dept, Air Force (×4+), Air Force Academy, Army Reserve, State of Rhode Island.

**Defense/Aerospace:** Lockheed Martin (×2), Forcepoint, 3GIMBALS, Janes, Pixxel, KBR Inc.

**Entertainment/VFX:** Fox Corp (×2+), Warner Bros Discovery, Sphere Entertainment, Epic Games, USC Cinematic Arts (×2), Gersh Agency, NFL Network — aligned with patent's entertainment technology field.

**Profile Status:** Dormant, unfinished, never promoted, never actively used.

## WHAT IS EMAIL AUTHENTICATION?

### A Plain-English Primer for Non-Technical Readers

Email authentication is a set of technologies that allow a receiving mail server to verify that an email genuinely came from who it claims to be from and that it has not been altered in transit. These technologies are the digital equivalent of a wax seal on a letter, a postmark from a verified post office, and a return address that has been independently confirmed.

### DKIM — The Wax Seal

**What it is:** DomainKeys Identified Mail (DKIM) is a cryptographic signature that the sender's mail server attaches to every outgoing email. Only the holder of the private key (LinkedIn) can create it, and anyone can verify it by checking the corresponding public key published in LinkedIn's DNS records.

**What it proves:** If DKIM passes, the email was genuinely sent by linkedin.com and not a single character was altered after LinkedIn sent it. Any modification would cause the cryptographic hash to fail.

**In this corpus:** All 99 emails carry two DKIM signatures: linkedin.com (2048-bit RSA) and maile.linkedin.com (1024-bit). Both passed on all 99 emails.

### SPF — The Verified Return Address

**What it is:** Sender Policy Framework (SPF) allows a domain owner to publish a list of IP addresses authorized to send email on its behalf. An SPF pass confirms the email was sent from a server LinkedIn has explicitly authorized.

**In this corpus:** 90 of 99 show SPF PASS. The 9 showing “not evaluated” still passed DKIM, confirming authenticity through the stronger cryptographic mechanism.

### DMARC — The Organizational Policy

**What it is:** DMARC instructs receiving servers on what to do if authentication fails. LinkedIn's DMARC policy is “reject” — the strictest setting — meaning any forged email would be discarded by the receiving server.

**In this corpus:** 90 emails show DMARC PASS. The 9 PARTIAL verdicts are due to SPF not being evaluated, but DKIM still passed.

### ARC — The Chain of Custody

**What it is:** Authenticated Received Chain preserves authentication results through intermediary servers. ARC is not required for direct delivery (single-hop), so its presence or absence does not affect the DKIM/SPF/DMARC verdict.

## What This Means for These 99 Emails

When all three core mechanisms pass — as they do for 90 of 99 emails, with the remaining 9 still passing DKIM — it provides **cryptographic proof** that these emails are genuine, unaltered LinkedIn system notifications. They are not fabricated. They are not spoofed. They are not modified. They are exactly what LinkedIn's servers sent.

## METHODS

### Data Sources

Primary: [EML Authentication & Entity Validation Catalog](#) (99 entries). Secondary: [PDF Exhibit EML-C](#) (Docket #63). Cross-reference: MCRO forensic database — tables queried: case\_registry, parents, parents\_case\_events, children for case\_uid = 'case:27-cr-23-1886' AND 'case:27-mh-pr-23-815' (linked via cluster\_id 1570). Patent and business timeline data sourced from authenticated Exhibits EML-B (26 emails), EML-D (82 emails), and EML-E (79 emails).

### Analytical Approach

Six phases: (1) Authentication validation across all 99 catalog entries; (2) Entity extraction and sector categorization; (3) Descriptive statistics and outlier identification; (4) Independent event timeline construction from MCRO database for both the CR case (27-CR-23-1886) and the linked MH commitment case (27-MH-PR-23-815); (5) Patent/business timeline alignment using authenticated EML-D/EML-E exhibits; (6) Temporal correlation analysis within  $\pm 14$ -day windows.

## FINDINGS

### Finding 1: Authentication Foundation — 99/99 Emails Verified

#### Background

Email authentication mechanisms provide cryptographic proof that an email was sent by its claimed sender and was not altered in transit.

#### Findings

| Mechanism                           | Pass    | Not Eval    | Pass Rate          |
|-------------------------------------|---------|-------------|--------------------|
| DKIM (linkedin.com, 2048-bit)       | 99      | 0           | 100%               |
| DKIM (maile.linkedin.com, 1024-bit) | 99      | 0           | 100%               |
| SPF (bounce.linkedin.com)           | 90      | 9           | 90.9%              |
| DMARC (p=reject)                    | 90      | 9           | 90.9%              |
| ARC                                 | 13 PASS | 86 NONE/N/A | 100% where present |

| Verdict | Count | %     | Explanation                          |
|---------|-------|-------|--------------------------------------|
| PASS    | 90    | 90.9% | All mechanisms passed                |
| PARTIAL | 9     | 9.1%  | SPF not evaluated; DKIM still passed |
| FAIL    | 0     | 0%    | —                                    |

All 9 PARTIAL verdicts are due to SPF “not evaluated” conditions — **not failures**. DKIM passed on every single email.

#### Significance

A 100% DKIM pass rate across 99 emails spanning 35 months establishes that every email in this corpus is a genuine, unaltered LinkedIn system notification. This authentication foundation is the bedrock for all subsequent findings.

## Finding 2: Infrastructure Consistency — Single-Hop Encrypted Delivery

### Findings

| Element               | Value                                         | Consistency            |
|-----------------------|-----------------------------------------------|------------------------|
| Delivery path         | LinkedIn → Proton Mail (single hop)           | 100% (all 99)          |
| Sending IPs           | 108.174.3.xxx (LinkedIn infrastructure)       | 100%                   |
| TLS                   | TLSv1.2 ECDHE-RSA-AES256-GCM-SHA384 (256/256) | 100%                   |
| Spam score            | X-Pm-Spamscore: 0                             | 100%                   |
| Recipient-Valid-Since | Nov 24, 2020 23:03:31 UTC                     | 100%                   |
| DKIM timestamp drift  | 0–1 seconds vs Date header                    | Normal transit latency |

### Significance

The uniform infrastructure across 35 months eliminates the possibility of relay manipulation or header injection. The anchored Require-Recipient-Valid-Since timestamp fixes account creation to November 24, 2020.

## Finding 3: Entity Validation & Sector Categorization

### Findings

| Sector                               | Count | Notable Entities                                                                                                                                                                                                                                   |
|--------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Government / Military / Intelligence | 10+   | DARPA (×2), DIA, Indo-Pacific Command, State Dept, USAF (×4+), USAF Academy, Army Reserve, State of Rhode Island                                                                                                                                   |
| Defense / Aerospace / Security       | 6+    | Lockheed Martin (×2), Forcepoint, 3GIMBALS, Janes, Pixxel, KBR Inc.                                                                                                                                                                                |
| Entertainment / Media / VFX          | 16+   | Fox Corp (×2+), Fox Networks, Fox Entertainment, Warner Bros Discovery, WarnerMedia, A+E Networks, Bally Sports, NFL Network, REELZ, Hubbard Broadcasting, Newsmax, Sphere Entertainment, MSG Entertainment, Epic Games, Kino Lorber, Gersh Agency |
| Financial / Professional             | 6+    | Morgan Stanley, Bain & Company, Northwestern Mutual, Forbes Councils, UnitedHealth Group, Marcum LLP                                                                                                                                               |
| Medical / Pharma                     | 5+    | Bayer Pharmaceuticals, Brigham and Women's, Johns Hopkins Bloomberg, Relieva Medsystems, CURE Pharma                                                                                                                                               |
| Cannabis / Emerging Industry         | 10+   | DMC Cannabis, Green Thumb Industries, Cresco Labs, C3 Industries, MariMed, FundCanna, Airo Brands, Theory Wellness, FlowerHire, Suncrafted                                                                                                         |
| Education                            | 8+    | USC Cinematic Arts (×2), Bay Path Univ, Boise State, Cape Cod CC, Worcester State, Univ of Rhode Island, Univ of Ottawa                                                                                                                            |
| Technology / Data                    | 8+    | Best Buy (×3+), Datadog, Seamless.AI (×2), ZoomInfo, YouTube Creators, Simpli.fi, Thermo Fisher                                                                                                                                                    |
| Legal / Insurance / HR               | 8+    | Paychex (×4+), UKG (×3+), Paypro Workforce (×3), Paycor, NSM Insurance, USI Insurance                                                                                                                                                              |
| Other / Corporate                    | 25+   | Target, H-E-B, Ryder, Uber Freight (×2), SANS Institute, various others                                                                                                                                                                            |

### Significance

The entertainment/media/VFX sector is one of the largest entity categories. As documented in Finding 12, many of these entities operate in the same industry as the Plaintiff's granted patent (US 11,577,177 — entertainment/VFX technology). This alignment is notable given the profile was dormant and never promoted.

## Finding 4: Statistical Profile of Search Activity

### Findings

| Statistic                       | Value                              |
|---------------------------------|------------------------------------|
| Total searches                  | 597                                |
| Observations                    | 99 weeks                           |
| Mean ( $\mu$ )                  | 6.03                               |
| Median                          | 5                                  |
| Standard deviation ( $\sigma$ ) | 4.49                               |
| Minimum                         | 1 (Dec 3 & Dec 10, 2022)           |
| Maximum                         | 25 (week ending July 20, 2023 CDT) |
| $2\sigma$ threshold             | 15.02 searches/week                |
| Weeks exceeding $2\sigma$       | 6 of 99 (6.1%)                     |

### All Spikes Exceeding $2\sigma$ :

| Date        | Count | $\sigma$ Above Mean | Phase  | Alignment                                                                              |
|-------------|-------|---------------------|--------|----------------------------------------------------------------------------------------|
| 2021-03-30  | 17    | $2.44\sigma$        | Patent | 11 days after patent application filing (Mar 19, 2021)                                 |
| 2021-12-13  | 17    | $2.44\sigma$        | Patent | During patent prosecution period                                                       |
| 2022-04-02  | 19    | $2.89\sigma$        | Patent | During TRACK ONE prosecution; Inhance Digital + Gentle Giant Studios in adjacent weeks |
| 2023-07-20* | 25    | $4.22\sigma$        | Legal  | Same day: Petition for Judicial Commitment (27-MH-PR-23-815)                           |
| 2023-08-11  | 18    | $2.67\sigma$        | Legal  | 1 day after Order of Stayed Commitment (Aug 10)                                        |
| 2023-11-09  | 17    | $2.44\sigma$        | Legal  | 6 days before 2nd Rule 20.01 order (Nov 15)                                            |

\* Notification delivered 2023-07-21T01:53:23Z = July 20, 2023, 8:53 PM CDT (local time).

### Year-Over-Year Pattern:

| Year | Notifications | Searches | Avg/Wk | Peak | $2\sigma$ Spikes | Phase               |
|------|---------------|----------|--------|------|------------------|---------------------|
| 2020 | 1             | 4        | 4.00   | 4    | 0                | Pre-patent          |
| 2021 | 13            | 102      | 7.85   | 17   | 2                | Patent prosecution  |
| 2022 | 40            | 199      | 4.97   | 19   | 1                | Patent prosecution  |
| 2023 | 45            | 292      | 6.49   | 25   | 3                | Criminal/commitment |

### Significance

The shift from patent-period spikes (2021–2022: 3 spikes during prosecution of US 11,577,177) to legal-proceedings spikes (2023: 3 spikes during competency/commitment proceedings) is itself a measurable pattern. The all-time peak of 25 searches represents  $4.22\sigma$  — an event expected less than 0.003% of the time in a normal distribution.

## Finding 5: Case Event Timeline — Dual-Case Verification from MCRO Database

### Background

An independent event timeline was constructed from both the criminal case (27-CR-23-1886) and the linked civil commitment case (27-MH-PR-23-815), both confirmed under cluster\_id 1570 (MATTHEW GUERTIN). All dates below are DB-confirmed via SELECT queries against parents\_case\_events (see Appendix A1–A3).

### Findings

#### Key Milestones — Combined CR + MH Timeline (with LinkedIn alignment):

| Date         | Case | Event                                            | LinkedIn Alignment                               |
|--------------|------|--------------------------------------------------|--------------------------------------------------|
| Jan 21, 2023 | CR   | Offense date (all 4 charges, Minnetonka PD)      | Same day: Forcepoint + 3GIMBALS + Fox Corp (6)   |
| Jan 24, 2023 | CR   | E-Filed Comp-Order for Detention (charge filing) | +3 days after Forcepoint/3GIMBALS                |
| Jan 25, 2023 | CR   | 1st Rule 20.01 evaluation ordered (Ref. Norris)  | +4 days after offense date searches              |
| Mar 10, 2023 | CR   | 1st Rule 20.01 evaluation report (Dr. Rogstad)   | Mar 4: 11 searches; Mar 18: 12 searches          |
| Jun 14, 2023 | CR   | Order Continuing Hearing (Judge Dayton Klein)    | Jun 10: 10 (KBR); Jun 24: 10                     |
| Jul 7, 2023  | CR   | Contested Competency Hearing (Ref. Borer)        | Jul 7: 3 searches                                |
| Jul 13, 2023 | CR   | Finding of Incompetency and Order                | Falls within Jul 20 peak window                  |
| Jul 20, 2023 | MH   | PETITION FOR JUDICIAL COMMITMENT + 9 filings     | SAME DAY: 25 searches (ALL-TIME PEAK)            |
| Jul 21, 2023 | MH   | Order and Notice of Hearing; Order-Other         | Peak notification delivery date (UTC)            |
| Aug 1, 2023  | MH   | Taken Under Advisement; Scheduling Order         | Aug 4: DARPA + DIA + Indo-Pacific (7)            |
| Aug 4, 2023  | MH   | Examiner's Report filed                          | SAME DAY: DARPA + DIA + Indo-Pacific (7)         |
| Aug 9, 2023  | MH   | Acceptance of Terms of Stay of Commitment        | Aug 11: State Dept + Air Force (18)              |
| Aug 10, 2023 | MH   | ORDER OF STAYED COMMITMENT                       | NEXT DAY: State Dept + Air Force (18)            |
| Oct 30, 2023 | MH   | Progress Report                                  | Oct 26: 8 searches (Bally Sports)                |
| Nov 15, 2023 | CR   | 2nd Rule 20.01 evaluation ordered                | Nov 9: 17 searches (Sphere Ent.) — 6 days before |

## Significance

The MH case docket provides a critical missing piece. The July 20 commitment petition, the August 4 Examiner's Report, and the August 10 Order of Stayed Commitment create **same-day or next-day alignments** with the three most notable LinkedIn search events in the entire 2023 dataset. These alignments were verified from the live database, not from prior reports.

## Finding 6: Temporal Correlation Matrix — Search Spikes vs. Case Events

### Findings

| EML Date    | Count | Nearest DB-Confirmed Event(s)                         | Gap    | Notable Entities               |
|-------------|-------|-------------------------------------------------------|--------|--------------------------------|
| 2023-01-21  | 6     | Jan 21: Offense date (all 4 charges)                  | 0 days | Forcepoint; 3GIMBALS; Fox Corp |
| 2023-03-04  | 11    | Mar 10: 1st Rule 20 eval report                       | -6d    | Alera Group; MN CarePartner    |
| 2023-03-18  | 12    | Mar 10: 1st Rule 20 eval report                       | +8d    | BI WORLDWIDE; Zeta Global      |
| 2023-03-25  | 10    | Mar 27: Request for Continuance                       | -2d    | Worcester State; DMC Cannabis  |
| 2023-06-10  | 10    | Jun 14: Order Continuing Hearing                      | -4d    | KBR Inc.; Bay Path Univ        |
| 2023-06-24  | 10    | Jun 14: Order Continuing Hearing                      | +10d   | DMC Cannabis                   |
| 2023-07-20* | 25    | Jul 20: PETITION FOR COMMITMENT (MH)                  | 0 DAYS | State of RI; Samsung Ads       |
| 2023-08-04  | 7     | Aug 4: MH Examiner's Report; Aug 3: "Set B" discovery | 0 DAYS | DARPA; DIA; Indo-Pacific Cmd   |
| 2023-08-11  | 18    | Aug 10: MH ORDER OF STAYED COMMITMENT                 | +1 DAY | U.S. State Dept; USAF          |
| 2023-11-09  | 17    | Nov 15: 2nd Rule 20.01 order (CR)                     | -6d    | Sphere Entertainment; GTI      |

\* Notification 2023-07-21T01:53:23Z = July 20, 2023 8:53 PM CDT.

### Significance

Three of the most significant search activity events in 2023 now show **same-day or next-day** alignment with DB-confirmed case events: the commitment petition (July 20 = 0 days), the MH Examiner's Report (August 4 = 0 days), and the Order of Stayed Commitment (August 10 → August 11 = +1 day). These are tighter correlations than the 8–29 day gaps previously reported.

## Finding 7: The July 20, 2023 Peak — 25 Searches on the Day of Civil Commitment

### Background

The LinkedIn notification dated 2023-07-21T01:53:23Z (UTC) was delivered on July 20, 2023 at 8:53 PM CDT. LinkedIn's weekly notifications summarize the preceding week's search activity. This notification thus covers approximately July 13–20, 2023.

### Findings

**Search count:** 25 ( $4.22\sigma$  above mean of 6.03)

**DB-confirmed events within notification window:**

| Date    | Case                 | Event                                                         |
|---------|----------------------|---------------------------------------------------------------|
| July 13 | CR (27-CR-23-1886)   | Finding of Incompetency and Order (Judge Browne / Ref. Borer) |
| July 13 | CR                   | Found Incompetent                                             |
| July 13 | CR                   | Order-Other (Incompetency finding)                            |
| July 20 | MH (27-MH-PR-23-815) | Petition for Judicial Commitment                              |
| July 20 | MH                   | Pre-Petition Screening Report                                 |
| July 20 | MH                   | Psychological Evaluation Report                               |
| July 20 | MH                   | Law Enforcement Report                                        |
| July 20 | MH                   | Motion for Production of Medical Records                      |
| July 20 | MH                   | Rule 20.01 Felony filing                                      |
| July 20 | MH                   | 5 additional filings (10 total on this date)                  |
| July 21 | MH                   | Order and Notice of Hearing                                   |

**Entities that week:** National Association of Personal Financial Advisors; State of Rhode Island; Samsung Ads; Sales Xceleration.

### Significance

The most anomalous data point in a 35-month, 99-observation time series — a  $4.22\sigma$  event — falls on **the exact day** (local time) that the State of Minnesota filed a Petition for Judicial Commitment to civilly commit the Plaintiff. This petition was the direct procedural consequence of the July 13 incompetency finding. The notification window encompasses both the incompetency finding (July 13) and the commitment petition (July 20) — the two most consequential legal events in the Plaintiff's case history. The appearance of State of Rhode Island as a government entity searching the Plaintiff's dormant profile during this window adds an additional data point.

## Finding 8: The DARPA / DIA / Indo-Pacific Command Week (Aug 4, 2023)

### Findings

**Search count:** 7

**Entities:** Defense Advanced Research Projects Agency (DARPA); Defense Intelligence Agency; U.S. Indo-Pacific Command; Best Buy; MariMed, Inc.

**DB-confirmed events on or adjacent to August 4, 2023:**

| Date  | Case | Event                                                                         |
|-------|------|-------------------------------------------------------------------------------|
| Aug 1 | MH   | Taken Under Advisement + Scheduling Order                                     |
| Aug 2 | MH   | Affidavit of No Service (×2)                                                  |
| Aug 3 | —    | “Set B” discovery materials provided by Michael Biglow (EML-E)                |
| Aug 4 | MH   | Examiner’s Report filed                                                       |
| Aug 4 | —    | Last Guertin → Rivers email before 159-day communication gap (EML-E email 62) |

### Significance

The DARPA/DIA/Indo-Pacific Command notification coincides with: (a) the MH Examiner’s Report filed the same day, (b) the delivery of allegedly fraudulent discovery materials one day prior, (c) the most intense period of defense communication before the 159-day gap, and (d) active proceedings to civilly commit the Plaintiff. DARPA appeared a second time on September 28, 2023 (6 searches), establishing a recurring pattern during the post-commitment period.

## Finding 9: The Forcepoint / 3GIMBALS Week — The Offense Date (Jan 21, 2023)

### Findings

**Search count:** 6

**Entities:** Forcepoint (cybersecurity/insider threat monitoring); 3GIMBALS (defense/intelligence); Fox Corporation; ArcBest.

**January 21, 2023 is the offense date** for all 4 charges in 27-CR-23-1886 (Minnetonka PD). The E-Filed Comp-Order for Detention was filed 3 days later (Jan 24). The 1st Rule 20.01 evaluation was ordered on January 25.

**EML-D context:** The final authenticated email in the 82-email EML-D corpus (patent/business communications) was sent January 18, 2023 — 3 days before the offense.

**The preceding 2 weeks (Jan 4–18) contained 37 emails documenting an escalating patent crisis.**

### Significance

**Forcepoint specializes in cybersecurity and insider threat monitoring.**

**3GIMBALS operates in the defense/intelligence sector.**

**Their co-appearance on the exact offense date, following a period of escalating patent-related communications, and immediately preceding the formal charge filing, represents the tightest pre-charge temporal alignment in the dataset.**

## Finding 10: The State Department / Air Force Week — Day After Stayed Commitment (Aug 11, 2023)

### Findings

**Search count:** 18 ( $2.67\sigma$  above mean)

**Entities:** U.S. Department of State; United States Air Force; Paychex; FlowerHire; Society Cannabis Co.

**DB-confirmed events immediately preceding:**

| Date   | MH Event                                                      |
|--------|---------------------------------------------------------------|
| Aug 7  | Examiner's Report Distributed + 2nd Examiner's Report         |
| Aug 9  | Acceptance of Terms of Stay of Commitment + Plan for Services |
| Aug 10 | Taken Under Advisement + ORDER OF STAYED COMMITMENT           |

### Significance

The 18-search spike — the second-highest in 2023 — falls **1 day after the Order of Stayed Commitment** in the MH case. This is a dramatically tighter alignment than the 29-day gap to the CR incompetency finding previously reported. The co-occurrence of U.S. Department of State and United States Air Force during this specific window is notable. The Air Force appeared at least 4 times across the corpus (including Air Force Academy in 2021 and Department of the Air Force in 2022).

## Finding 11: Patent & Business Timeline Correlations (Pre-Charge Period)

### Background

The current dataset spans December 2020 through November 2023. The first 25 months (Dec 2020 – Jan 2023) predate the criminal charges entirely and coincide with the Plaintiff's active prosecution of US Patent 11,577,177 ("motorized rotatable treadmill and system for creating the illusion of movement," assigned to InfiniSet, Inc.) and related business activities documented in 82 authenticated emails (Exhibit EML-D). This finding examines search activity correlations with patent milestones.

### Findings

| Patent / Business Event                     | Date            | LinkedIn Date   | Count             | Gap      | Entities                              |
|---------------------------------------------|-----------------|-----------------|-------------------|----------|---------------------------------------|
| Patent application filed (US 11,577,177)    | Mar 19, 2021    | Mar 30, 2021    | 17 (2 $\sigma$ +) | +11 days | ACE Automation; Rank Interactive      |
| Netflix patent filed (US 11,810,254)        | Mar 31, 2021    | Mar 30, 2021    | 17                | -1 day   | (same spike window)                   |
| Active TRACK ONE prosecution                | Spring 2022     | Apr 2, 2022     | 19 (2 $\sigma$ +) | During   | Human Interest                        |
| VFX entities in adjacent weeks              | Apr 2022        | Apr 16 / Apr 23 | 3 / 3             | —        | Inhance Digital; Gentle Giant Studios |
| PCT + TRACK ONE filings                     | Sep 26–27, 2022 | Sep 24, 2022    | 6                 | -2 days  | Hubbard Broadcasting; REELZ           |
| Netflix patent discovery reported to Rivers | Nov 11, 2022    | Nov 19, 2022    | 6                 | +8 days  | MSG Entertainment                     |
| USPTO Notice of Allowance                   | Nov 9, 2022     | Nov 5–19        | 2–6               | Window   | (patent crisis period)                |
| Internet Archive fraud investigation        | Dec 9–29, 2022  | Dec 17, 2022    | 9                 | During   | Army Reserve; USC Cinematic Arts      |
| Internet Archive investigation cont.        | Dec 2022        | Dec 24, 2022    | 10                | During   | Epic Games; Exeter Hospital           |
| Escalating patent crisis (37 emails)        | Jan 4–18, 2023  | Jan 7, 2023     | 5                 | During   | Morgan Stanley                        |
| Last EML-D email (#82)                      | Jan 18, 2023    | Jan 21, 2023    | 6                 | +3 days  | Forcepoint; 3GIMBALS; Fox Corp        |
| Offense date (all 4 charges)                | Jan 21, 2023    | Jan 21, 2023    | 6                 | 0 days   | Forcepoint; 3GIMBALS; Fox Corp        |
| Patent granted (US 11,577,177)              | Feb 14, 2023    | Feb 5, 2023     | 6                 | -9 days  | USC Cinematic Arts (x2nd)             |
| USPTO prior art submission vs Netflix       | Feb 17, 2023    | Feb 18, 2023    | 3                 | +1 day   | —                                     |

## Significance

The pre-charge period shows a measurable pattern of search activity correlating with patent prosecution milestones. The first  $2\sigma$  spike in the entire dataset occurs 11 days after the patent application filing. The Dec 2022 Internet Archive investigation period shows consecutive weeks of 9 and 10 searches with entertainment industry entities (USC Cinematic Arts, Epic Games). The January 2023 escalation from patent crisis communications to the offense date to the charge filing maps onto a continuous sequence of LinkedIn notifications featuring increasingly notable entity names — culminating in Forcepoint and 3GIMBALS on the exact offense date. This dual-phase correlation (patent prosecution → criminal proceedings) across the same dormant LinkedIn profile is a structural pattern spanning the entire 35-month observation window.

## Finding 12: Entertainment / VFX Entity Alignment with Patent Subject Matter

### Background

US Patent 11,577,177 is for entertainment/VFX technology: a “motorized rotatable treadmill and system for creating the illusion of movement” used in film, live entertainment, and immersive media production. The Plaintiff’s professional background (documented in Exhibit EML-B) includes engineering work at XiteLabs, BlackTrax/Falcon, the LA Philharmonic (via Disguise.one), and features in Derivative.ca and PLSN magazine — all entertainment technology industry.

### Findings

**Entertainment/VFX entities appearing across the corpus that directly align with the patent’s industry:**

| Entity                                 | Date                          | Searches | Industry Relevance                                                                   |
|----------------------------------------|-------------------------------|----------|--------------------------------------------------------------------------------------|
| Fox Entertainment / Fox Networks Group | Apr 19, 2021                  | 9        | Major studio (during patent prosecution)                                             |
| Fox Corporation                        | Jan 21, 2023;<br>Apr 29, 2023 | 6; 5     | Major studio (offense date + post-charge)                                            |
| Inhance Digital                        | Apr 16, 2022                  | 3        | CGI/VFX production company                                                           |
| Gentle Giant Studios                   | Apr 23, 2022                  | 3        | 3D scanning/VFX (film production)                                                    |
| USC School of Cinematic Arts (x2)      | Dec 17, 2022;<br>Feb 5, 2023  | 9; 6     | Entertainment education (patent crisis + grant window)                               |
| Epic Games                             | Dec 24, 2022                  | 10       | VFX/game engine (during fraud investigation)                                         |
| A+E Networks                           | Jan 28, 2023                  | 6        | Major media company                                                                  |
| NFL Network                            | Feb 12, 2023                  | 7        | Broadcast/entertainment                                                              |
| Gersh Agency                           | May 13, 2023                  | 6        | Hollywood talent agency                                                              |
| Samsung Ads                            | Jul 20, 2023                  | 25       | Ad-tech/media (same day as commitment)                                               |
| WarnerMedia / Warner Bros. Discovery   | Oct 5, 2023                   | 5        | Major studio/entertainment conglomerate                                              |
| Bally Sports                           | Oct 26, 2023                  | 8        | Sports broadcast/entertainment                                                       |
| Sphere Entertainment Co.               | Nov 9, 2023                   | 17       | Immersive entertainment venue — directly relevant to patent’s “illusion of movement” |
| Kino Lorber                            | Sep 21, 2023                  | 6        | Film distribution                                                                    |

### Significance

The concentration of entertainment/media/VFX entities is not random relative to the Plaintiff’s professional background and patent. These are the industries his granted patent serves. The appearance of Sphere Entertainment Co. — the Las Vegas immersive entertainment venue whose technology domain directly overlaps with the patent’s “illusion of movement” claims — in

the November 9, 2023 2σ+ spike is particularly notable. However, the profile was dormant and never promoted, so these entities were not finding it through normal professional networking.

## Finding 13: Recurring Defense/Intelligence Patterns — Lockheed Martin & DARPA

### Findings

| Entity          | Date 1                    | Date 2                    | Context                                                               |
|-----------------|---------------------------|---------------------------|-----------------------------------------------------------------------|
| Lockheed Martin | May 27, 2023 (8 searches) | Sep 21, 2023 (6 searches) | Between Rogstad report and incompetency hearing; then post-commitment |
| DARPA           | Aug 4, 2023 (7 searches)  | Sep 28, 2023 (6 searches) | MH Examiner's Report day; then ~8 weeks later, post-commitment        |

### Significance

Both DARPA appearances fall within the post-incompetency/commitment period (July–September 2023). Lockheed Martin — a defense contractor with entertainment/simulation and intelligence divisions — appears twice spanning the gap between the first competency evaluation report and the post-commitment period.

## Finding 14: The Dormant Profile Context

### Findings

| Metric                                      | Value                               |
|---------------------------------------------|-------------------------------------|
| Profile status                              | Dormant, unfinished, never promoted |
| Total searches over 35 months               | 597                                 |
| Average weekly searches                     | 6.03                                |
| Peak single-week searches                   | 25 (day of commitment petition)     |
| Distinct searching entities                 | ~155                                |
| Government/Military/Intelligence entities   | 10+                                 |
| Defense/Aerospace entities                  | 6+                                  |
| Entertainment/VFX entities (patent-aligned) | 16+                                 |

### Significance

A dormant, unfinished, never-promoted LinkedIn profile averaging 6 searches per week, peaking at 25 searches on the day of a civil commitment petition filing, with searching entities including DARPA, DIA, U.S. Indo-Pacific Command, Lockheed Martin, the State Department, the Air Force, and a concentration of entertainment/VFX entities aligned with the profile holder's granted patent, represents an objectively unusual activity pattern.

## Finding 15: Anomaly Register — All 5 Anomalies Explained

### Findings

| # | Date       | Type             | Description                                                  |
|---|------------|------------------|--------------------------------------------------------------|
| 1 | 2021-01-09 | Missing Header   | No ARC header. Consistent with early Proton Mail processing. |
| 2 | 2021-03-15 | Missing Header   | No ARC header. Same as above.                                |
| 3 | 2021-03-15 | Template Variant | Digest template instead of single-appearance.                |
| 4 | 2021-03-30 | Template Variant | Digest template. Same as above.                              |
| 5 | 2021-10-19 | Template Variant | Digest template. Same as above.                              |

All 5 anomalies are minor and expected. Zero indicators of forgery, tampering, spoofing, or header manipulation were detected in any email.

## KEY METRICS SUMMARY

| Category       | Metric                                      | Value                                  |
|----------------|---------------------------------------------|----------------------------------------|
| Authentication | DKIM pass rate                              | 99/99 (100%)                           |
| Authentication | Forgery indicators                          | 0                                      |
| Volume         | Total searches                              | 597 across 35 months                   |
| Volume         | Peak week                                   | 25 (July 20, 2023 CDT) — 4.22 $\sigma$ |
| Correlation    | Peak → Commitment petition (MH)             | SAME DAY (0 days)                      |
| Correlation    | DARPA/DIA → MH Examiner's Report            | SAME DAY (Aug 4)                       |
| Correlation    | State Dept/AF → Stayed Commitment Order     | +1 DAY (Aug 10 → 11)                   |
| Correlation    | Forcepoint/3GIMBALS → Offense date          | SAME DAY (Jan 21)                      |
| Correlation    | 1st 2 $\sigma$ spike → Patent application   | +11 DAYS (Mar 19 → 30)                 |
| Entities       | DARPA appearances                           | 2 (both post-incompetency)             |
| Entities       | Air Force appearances                       | 4+ (across 2021–2023)                  |
| Entities       | Lockheed Martin                             | 2 (May + Sep 2023)                     |
| Entities       | Entertainment/VFX entities (patent-aligned) | 16+                                    |
| Entities       | Gov/Military/Intel total                    | 10+                                    |
| Context        | Profile status                              | Dormant, never promoted                |
| Pattern        | 2021–2022 spikes                            | 3 (all during patent prosecution)      |
| Pattern        | 2023 spikes                                 | 3 (all during competency/commitment)   |

## LIMITATIONS & ALTERNATIVE EXPLANATIONS

1. LinkedIn search notifications identify organizational entities associated with the searcher's profile, not specific individuals. An employee of DARPA viewing the Plaintiff's profile may have been doing so for personal, unrelated reasons.
2. LinkedIn's "Who Viewed Your Profile" algorithm may surface views from users in similar industries, geographic areas, or with overlapping network connections. Some or all views may reflect algorithmic matching rather than deliberate searches.
3. Search spikes may coincide with case events by chance. The 99-point dataset can identify temporal correlations but cannot establish statistical causation.
4. The authentication catalog verifies that the emails are genuine LinkedIn notifications. It does not verify the identity, intent, or purpose of the individuals who viewed the profile.
5. Entity names reflect LinkedIn profile affiliations at the time of the search, which may be outdated, inaccurate, or aspirational.
6. LinkedIn's notification threshold and algorithm are proprietary. The relationship between "searches" as reported and actual profile views may not be 1:1.
7. Patent prosecution milestones sourced from Exhibits EML-B, EML-D, and EML-E are taken as represented in those authenticated exhibits. Independent verification against USPTO records is recommended.
8. The MH case (27-MH-PR-23-815) docket was queried for event dates only. Filing party names were not populated in the database for MH case events.

## RECOMMENDATIONS FOR INDEPENDENT VERIFICATION

1. **Verify DKIM signatures independently:** Raw EML files available at [mncourtfraud.substack.com/p/eml](https://mncourtfraud.substack.com/p/eml)
2. **Cross-reference case event dates:** SQL queries in Appendix A1–A3 reproduce both CR and MH timelines from the live MCRO database.
3. **Subpoena LinkedIn corporate records:** Confirm search activity logs, user accounts, and organizational affiliations for the MattGuertin612 profile.
4. **Verify patent milestones:** Cross-reference US Patent 11,577,177 and related applications against USPTO PAIR/PatentCenter records.
5. **Independent statistical analysis:** Complete 99-point time series provided in Appendix. Granger causality testing against event timeline is recommended.
6. **Verify MH case docket independently:** Case 27-MH-PR-23-815 is accessible via MCRO. The July 20 commitment petition date and August 10 stayed commitment order are verifiable from the public docket.

## **POSSIBLE EXPLANATIONS (Unresolved; Not Proven by This Report)**

*The following are presented without endorsement.*

1. Algorithmic coincidence: LinkedIn's recommendation engine surfaced the dormant profile based on network proximity, location, or industry classification.
2. Public interest: If the Plaintiff's case or patent generated any attention within professional networks, spikes could reflect curiosity.
3. Deliberate information gathering: One or more individuals may have deliberately searched for the Plaintiff's profile in connection with legal proceedings, business dealings, or patent matters.
4. Automated scanning: Automated tools (recruiters, data aggregators, security scanners) from IP ranges associated with these organizations may have triggered notifications.
5. Combination: Different spikes may have different explanations. Patent-period activity, charge-period activity, and commitment-period activity may each reflect distinct causes.

## APPENDIX | SQL QUERIES & PYTHON VISUALIZATION CODE

### A1 — CR Case Event Timeline

```
SELECT event_index, event_json__date AS event_date, event_name, event_name_pretty,
event_json__party AS party, event_json__filing_party_name AS filing_party,
event_json__judicial_officer AS judicial_officer FROM parents_case_events WHERE case_uid =
'case:27-cr-23-1886' ORDER BY event_json__date, event_index;
```

### A2 — MH Case Event Timeline (Civil Commitment)

```
SELECT event_json__date AS event_date, event_name, event_json__filing_party_name AS
filing_party FROM parents_case_events WHERE case_uid = 'case:27-mh-pr-23-815' ORDER BY
event_json__date; -- Verify cluster linkage SELECT case_uid, case_id, cluster_id,
cluster_name FROM case_registry WHERE cluster_id = 1570;
```

### A3 — Rule 20 Events Filter (CR Case)

```
SELECT event_json__date AS event_date, event_name, event_name_pretty FROM
parents_case_events WHERE case_uid = 'case:27-cr-23-1886' AND (event_name ILIKE '%rule
20%' OR event_name ILIKE '%competenc%' OR event_name ILIKE '%incomp%' OR event_name
ILIKE '%comp-order%') ORDER BY event_json__date;
```

### A4 — Children Filings for CR Case (EML period)

```
SELECT evidence_uid, filing_date, filing_type, filename FROM children WHERE case_id = '27-
CR-23-1886' AND filing_date BETWEEN '2020-12-01' AND '2024-01-01' ORDER BY filing_date;
```

### A5 — Python Matplotlib Timeline Visualization Code

```
import matplotlib.pyplot as plt
import matplotlib.dates as mdates
from datetime import
datetime
import numpy as np
# — SEARCH DATA (99 points from Authentication Catalog) —
dates_str = [
    "2020-12-26", "2021-01-09", "2021-03-15", "2021-03-30", "2021-04-19", "2021-
05-10",
    "2021-09-11", "2021-09-18", "2021-10-19", "2021-11-15", "2021-11-24", "2021-11-29",
    "2021-12-13", "2021-12-27", "2022-01-10", "2022-01-17", "2022-02-28", "2022-03-14",
    "2022-
03-21", "2022-03-28", "2022-04-02", "2022-04-09", "2022-04-16", "2022-04-23",
    "2022-05-
02", "2022-05-09", "2022-05-16", "2022-05-21", "2022-05-28", "2022-06-04",
    "2022-06-
20", "2022-07-04", "2022-07-18", "2022-07-25", "2022-08-01", "2022-08-22",
    "2022-08-
29", "2022-09-03", "2022-09-11", "2022-09-17", "2022-09-24", "2022-10-01",
    "2022-10-
08", "2022-10-16", "2022-10-22", "2022-10-29", "2022-11-05", "2022-11-19",
    "2022-11-
26", "2022-12-03", "2022-12-10", "2022-12-17", "2022-12-24", "2022-12-31",
    "2023-01-
07", "2023-01-14", "2023-01-21", "2023-01-29", "2023-02-05", "2023-02-12",
    "2023-02-
18", "2023-02-25", "2023-03-04", "2023-03-11", "2023-03-18", "2023-03-25",
    "2023-04-
01", "2023-04-08", "2023-04-15", "2023-04-22", "2023-04-29", "2023-05-06",
    "2023-05-
13", "2023-05-20", "2023-05-27", "2023-06-03", "2023-06-10", "2023-06-17",
```

```

24", "2023-06-30", "2023-07-07", "2023-07-21", "2023-07-28", "2023-08-04",      "2023-08-
11", "2023-08-18", "2023-08-25", "2023-08-31", "2023-09-07", "2023-09-14",    "2023-09-
21", "2023-09-28", "2023-10-05", "2023-10-12", "2023-10-19", "2023-10-26",    "2023-11-
02", "2023-11-09", "2023-11-16" ] counts =
[4,2,9,17,9,2,3,2,14,8,3,14,17,2,5,3,3,3,2,14,19,10,3,3,10,4,3,6,5,7,
2,4,3,2,7,2,4,3,6,2,6,3,4,9,2,4,2,6,4,1,1,9,10,3,5,3,6,6,6,7,3,5,11,
2,12,10,5,5,2,2,5,6,6,11,8,6,10,3,10,2,3,25,7,7,18,3,5,3,3,6,6,6,5,2,      2,8,5,17,4]
dates = [datetime.strptime(d, "%Y-%m-%d") for d in dates_str] mean = np.mean(counts); sd =
np.std(counts) # — CASE EVENTS (DB-CONFIRMED) — cr_events = {      datetime(2023,1,24):
"Charge\nFiled",      datetime(2023,1,25): "Rule 20.01\nOrdered",      datetime(2023,3,10):
"1st R20\nEval",      datetime(2023,7,7): "Contested\nHearing",      datetime(2023,7,13):
"INCOMPETENCY\nFINDING",      datetime(2023,11,15): "2nd R20\nOrdered", } mh_events =
{      datetime(2023,7,20): "COMMITMENT\nPETITION",      datetime(2023,8,4): "MH Examiner\
nReport",      datetime(2023,8,10): "STAYED\nCOMMITMENT", } patent_events =
{      datetime(2021,3,19): "Patent\nFiled",      datetime(2023,2,14): "Patent\nGranted", }
fig, ax = plt.subplots(figsize=(22, 9)) bar_colors = ['#C0392B' if c > mean+2*sd else
'#2E75B6' for c in counts] ax.bar(dates, counts, width=5, color=bar_colors, alpha=0.85,
zorder=3, edgecolor='white', linewidth=0.3) # Annotate peak ax.annotate('25 searches\
n(4.22σ)\nSAME DAY as\nCommitment Petition',      xy=(dates[81], 25),
xytext=(dates[81], 29.5), ha='center', fontsize=7,      fontweight='bold',
color='#C0392B',      arrowprops=dict(arrowstyle='->', color='#C0392B', lw=1.5)) #
Reference lines ax.axhline(y=mean, color='#27AE60', linestyle='--', linewidth=1.5,
label=f'Mean ({mean:.1f})', zorder=2) ax.axhline(y=mean+sd, color='#E67E22', linestyle=':',
linewidth=1, label=f'+1σ ({mean+sd:.1f})', zorder=2) ax.axhline(y=mean+2*sd,
color='#C0392B', linestyle=':', linewidth=1.5, label=f'+2σ ({mean+2*sd:.1f})', zorder=2)
for edate, elabel in {**cr_events, **mh_events, **patent_events}.items():      color =
'#C0392B' if edate in mh_events else '#1B3A5C' if edate in cr_events else '#27AE60'
ax.axvline(x=edate, color=color, linestyle='-', linewidth=1, alpha=0.5, zorder=1)
ax.annotate(elabel, xy=(edate, 27), fontsize=6, ha='center', va='top', color=color,
fontweight='bold', bbox=dict(boxstyle='round,pad=0.3', facecolor='#FFFDE7',
edgecolor='#999', alpha=0.9)) ax.set_xlabel('Date', fontsize=11, fontweight='bold')
ax.set_ylabel('Weekly LinkedIn Search Count', fontsize=11, fontweight='bold')
ax.set_title('LinkedIn Search Activity Timeline – Dual-Case Correlation\n'      '99
Reports | 597 Searches | Dec 2020–Nov 2023 | CR + MH Events Annotated',
fontsize=13, fontweight='bold', color='#1B3A5C', pad=15)
ax.xaxis.set_major_locator(mdates.MonthLocator(interval=3))
ax.xaxis.set_major_formatter(mdates.DateFormatter('%b\n%Y')) ax.legend(loc='upper left',
fontsize=9) ax.set_ylim(0, 33); ax.set_xlim(datetime(2020,12,1), datetime(2023,12,1))
ax.grid(axis='y', alpha=0.3, zorder=0) ax.spines['top'].set_visible(False);
ax.spines['right'].set_visible(False) plt.tight_layout()
plt.savefig('linkedin_search_timeline_v2.png', dpi=200, bbox_inches='tight')

```

## A6 — Complete Search Count Timeline

See Authentication Catalog appendix (d) for the complete 99-row timeline. Total: 597 searches. Available at: [Catalog URL](#)