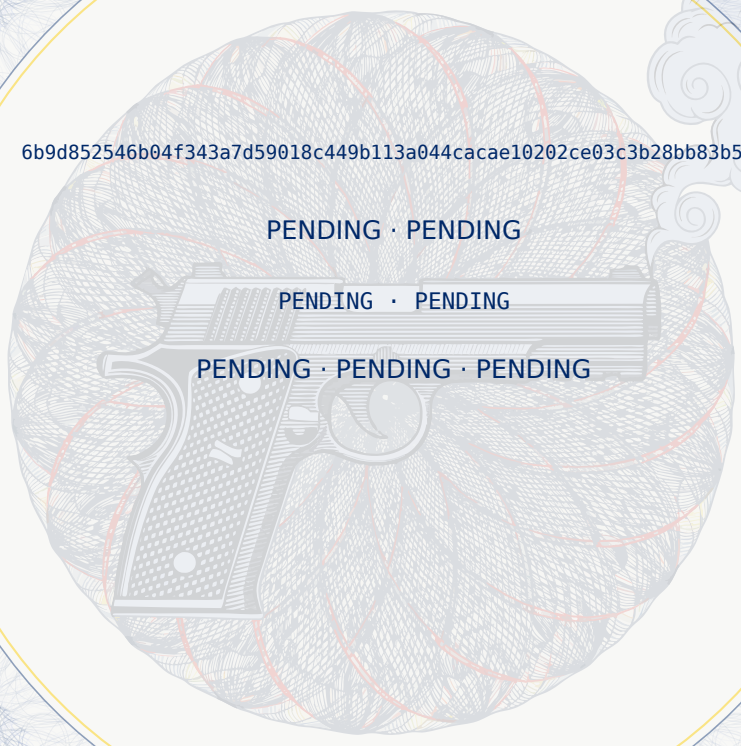
GLASS HULL

PROOF POSIT · JFD-20260920-PP-00001 · Robinhood Chain fee distributions

2026-04-30 → 2026-09-06T11:04:57Z

Robinhood Chain fee distributions

Every payment the chain has made to the Arbitrum ecosystem, read from the chain



6b9d852546b04f343a7d59018c449b113a044cacae10202ce03c3b28bb83b5ac

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K. L. Phillips

JFD-20260920-PP-00001 · 6b9d852546b0 · 1/1 · PENDING · https://jetfyul.com/v/JFD-20260920-PP-00001

NOTE ON THIS DOCUMENT

The pages above reproduce the sealed document. The sealed record is a file.

What the Notary authorised, what both hardware witnesses signed and what the ledger event records is the file `JFD-20260920-PP-00001.pdf` - 4287866 bytes, SHA-256 `b15b75eedd5fb3a3acd64178b994494911cf524fc9e4c145e30970da006841ed`.

The sealed document `JFD-20260920-PP-00001.pdf` (4287866 bytes, SHA-256 `b15b75eedd5fb3a3acd64178b994494911cf524fc9e4c145e30970da006841ed`) is embedded in this PDF as a file attachment.

The anchor proof as stamped at sealing `JFD-20260920-PP-00001.pdf.ots` (821 bytes, SHA-256 `139dea64ad2a078404da347347db4058a8c7eb214445cda70950af4142dcc62b`) is embedded in this PDF as a file attachment.

Its exact source, whose fingerprint the document prints, `PP-003-v2-FULL-ASSEMBLED.md` (13664 bytes, SHA-256 `6b9d852546b04f343a7d59018c449b113a044cacae10202ce03c3b28bb83b5ac`) is embedded in this PDF as a file attachment.

The seal record from which the certificate is built `seal-record-JFD-20260920-PP-00001.json` (6679 bytes, SHA-256 `3ca43a11bd99deed188750f8c17fba29340785412dabed55caaffb2cf54876ea`) is embedded in this PDF as a file attachment.

The complete anchor proof, carrying the Bitcoin attestation, `JFD-20260920-PP-00001.pdf.anchored.ots` (5249 bytes, SHA-256 `8b8c8c7516301efe550222bafae68f38fb8394b177aa62a5b0aaaaa373e0247f`) is embedded in this PDF as a file attachment.

The anchor confirmation from which the certificate's Bitcoin block is taken `anchor-confirmation-JFD-20260920-PP-00001.json` (2789 bytes, SHA-256 `aa578de8865ebbb08fb86fea3672fe03ab4500b1898747a58af2e8cbe46ba358`) is embedded in this PDF as a file attachment.

Open the attachments pane of your PDF reader to extract them, and hash each file as stored.

What follows, in order

The seal page, carrying the seal record's values: fingerprint, ledger event, both witnesses and the anchor. After it, the certificate, built from the same seal record.

SEAL PAGE — MATCHSTICK TRIBUNAL · MT-CC-SEALDOC-002

K. L. Phillips, a man
Principal, Jet Fyul Dynamics LLC · The author stands behind every word.

BLOCK 2 — ISSUER

```
ISSUER      Jet Fyul Dynamics LLC · Wyoming
RAIL        Matchstick Tribunal
CUSTODY     both witness keys held by the issuer, in silicon, on separate hosts; never exported
```

BLOCK 4 — WHO SIGNED IT

Two independent hardware witnesses. Conforming tests of a defined procedure — not a primary and a backup.

	WITNESS 1	WITNESS 2
chip identity	a9-atecc608b-slot0	a10-atecc608b-slot0
serial	0123ADA0711D8597EE	0123DC797ACC1195EE
curve	ECDSA-P256 (secp256r1)	ECDSA-P256 (secp256r1)
public key	d62d03f8dc3813fb5b74f2b64339d185…	853e69fc700990303abfe61358bfa456…
signature over artifact hash	→ ledger event 3024863	→ ledger event 3024863
signed (UTC)	→ event 3024863	→ event 3024863
federation peer	a10-atecc608b-slot0	a9-atecc608b-slot0
host · custody	A9 · Jet Fyul Dynamics LLC	A10 · Jet Fyul Dynamics LLC
certifies in accordance with	Fed. R. Evid. 902(13), 902(14)	Fed. R. Evid. 902(13), 902(14)
verified offline	→ event 3024863	→ event 3024863

Each signature verifies on its own, against its own public key, without the other and without anything of ours.
One signature is not a seal: if either witness is unreachable, no seal is produced. Both chips are the same make and model,
provisioned and owned by the issuer — independent in custody and location, not in supply chain or ownership.

Full public keys, signatures, and the Rule 902(11) certification of a qualified person: ledger event → event 3024863 · https://jetfyul.com/v/JFD-20260920-PP-00001

Blocks 1-3 are inside these bytes; Block 4 live cells, Block 5 (Ed25519 a1-ledger) and Block 6 (Bitcoin anchor) live on the ledger and at https://jetfyul.com/v/JFD-20260920-PP-00001

CERTIFICATE OF AUTHENTICITY

Robinhood Chain fee distributions - JFD-20260920-PP-00001

The record

Document control number: JFD-20260920-PP-00001

Fingerprint (SHA-256 of the sealed file, raw bytes as stored): `b15b75eedd5fb3a3acd64178b994494911cf524fc9e4c145e30970da006841ed`

Sealed file: `JFD-20260920-PP-00001.pdf`, 4287866 bytes

Source fingerprint printed inside the document: `6b9d852546b04f343a7d59018c449b113a044cacae10202ce03c3b28bb83b5ac`

Ledger event (kind-15): 3024863, event hash `0bdb2d14b709d8bf222ed1df552eaf6fb2e75c2bf73ad745ff5a2b9c5fabe5d3`

Notary authorisation (kind-3): 3024861

Seal request signed by both witnesses: SHA-256 `6a7152e801e0eef8e735317fda497c0ce784ae724c1fc95fc559c7b0175c5995`

Anchor: OpenTimestamps, **ATTESTED in Bitcoin block 967782** - block hash `000000000000000000217f5069b04da88efa203711ed83122f7203c89dcc1d1`, block time 2026-09-20T02:36:02Z.

Calendars that attested: https://finney.calendar.eternitywall.com (block 967815); https://btc.calendar.catallaxy.com (block 967784); https://alice.btc.calendar.opentimestamps.org (block 967821); https://bob.btc.calendar.opentimestamps.org (block 967782). The earliest attested block is the anchor.

Anchor check: the committed value equals block 967782's merkle root `3ddb9161ce78d336c8a9e9f65792b2b0dfdeefd7241389f44cc8475c78f6c2ab`, and mempool.space and blockstream.info agree on that merkle root and on the block hash (checked 2026-09-27T22:13:11Z).

Proofs: the proof as stamped at sealing, `JFD-20260920-PP-00001.pdf.ots` and the complete proof `JFD-20260920-PP-00001.pdf.anchored.ots`, which carries the Bitcoin attestation itself.

Verification address: https://jetfyul.com/v/JFD-20260920-PP-00001

The two hardware witnesses

Witness 1 - host A9, a9-atecc608b-slot0, serial 0123ADA0711D8597EE, curve ECDSA-P256 (secp256r1), signed 2026-09-20T02:30:05.921503+00:00

Public key: `d62d03f8dc3813fb5b74f2b64339d185742aabcae1bdcfd2f7a7ad59f1dd3c5d50e57effa4a3c888f58c3eca9d274bd7f0b8d263fa38bbf0bc6fbff6035c2411`

Signature: `afa65d899031e1f68128d3f701564f12ab04719dc3e141ea7b09076b447bbf150aef27bd3d189490de539ef40271e7a8f54e658176549e7a9a50eba3fe940e88`

Witness 2 - host A10, a10-atecc608b-slot0, serial 0123DC797ACC1195EE, curve ECDSA-P256 (secp256r1), signed 2026-09-20T02:30:08.129901+00:00

Public key: `853e69fc700990303abfe61358bfa456160eaae1529dbc74805d1639cfc88e78497bbe060e7ae5d54466b2ce0a2753e14204a21eed4a132a61ace3294f9beba1`

Signature: `fca99a978a955a45b60d0680e62abd7471043f97951489b1dca6180706627f27332c82a4a56cfe76b299b84248d31505f5ddf22e8db0d26f99549c7ece5a229f`

How to verify this without the Issuer, in six steps

(1) Extract `JFD-20260920-PP-00001.pdf` from this PDF's attachments and hash it as stored, with no normalisation. Its SHA-256 must equal the fingerprint above.

(2) Read ledger event 3024863 by its id. Its payload must carry that fingerprint as `doc_sha256` and JFD-20260920-PP-00001 as `dcn`.

(3) Verify witness 1's signature as ECDSA over P-256, with the public key above, over the seal request bytes whose SHA-256 is `6a7152e801e0eef8e735317fda497c0ce784ae724c1fc95fc559c7b0175c5995`.

(4) Verify witness 2's signature the same way. Each signature must verify under its own key and fail under the other's.

(5) Read the OpenTimestamps proof against the same fingerprint. It must carry a Bitcoin block-header attestation at block 967782; ask any block explorer for that block and compare its merkle root with the value the proof commits to.

(6) Open https://jetfyul.com/v/JFD-20260920-PP-00001 and confirm it shows the same fingerprint, ledger event, witnesses and anchor.

This certificate supersedes an earlier one

This certificate supersedes certificate **JFD-20260920-CERT-00001** (ledger event 3024874, SHA-256 `45d1b827568590206d9f27d24c3c6f09d154ab11423b214d1f92e3ba4c08612a`). That certificate was rendered and sealed before the document's anchor confirmed, so it could not state the Bitcoin block. Nothing about the certified document changed: the same file, the same fingerprint, the same sealing event and the same two witness signatures. The earlier certificate remains a valid seal of its own bytes; it is no longer the certificate of record.

This certificate goes to what the record is and that it has not been altered. It is not a sworn declaration and does not assert the truth of anything the document says.