MCP SERVER | NO CODE | CLOUD HOSTED

EPO Open Patent Services MCP

Audit IP data and check legal status instantly.

EPO Open Patent Services provides direct, AI-driven access to Europe and global patent data. Your agent instantly retrieves full bibliographic details, checks current legal statuses of patents, and searches published records from authoritative sources like EPO OPS.

A+ Quality Score 100/100

patent-search | intellectual-property | bibliographic-data | legal-status | innovation-tracking

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vinkius.com/mcp/epo-open-patent-services

SCAN TO VIEW

The infrastructure that powers AI agents in the real world.

Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

> *The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*
>
> — Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

```
https://edge.vinkius.com/{token}/mcp
```

Claude · Cursor · VS Code · Windsurf · Grok · Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1) Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

EPO Open Patent Services MCP

4 tools available
Cloud-hosted on Vinkius

Need to audit intellectual property or track competitive filings? This MCP connects your AI client directly to the European Patent Office's official database. Instead of logging into multiple patent portals and clicking through endless forms, you just talk to your agent. You ask a question—say, 'What is the legal standing of this specific invention?'—and it gets an instant answer. Your agent can pull metadata for thousands of published patents, verifying titles, applicants, and publication dates without you ever touching a web form. This capability transforms complex IP research into a simple conversation. By connecting through Vinkius, your AI client becomes a real-time patent consultant, handling everything from deep archival searches to monitoring the operational status of the data stream.

Core Capabilities

01 — Search for Published Patents

You can initiate broad searches across the entire EPO database to find relevant intellectual property filings.

02 — Check Patent Legal Status

The MCP verifies the current legal standing of any specific patent publication, telling you if rights are granted or pending.

03 — Retrieve Metadata by ID

You get all the core data—titles, applicants, dates—for a known patent using its unique document identifier.

04 — Monitor API Health

The agent checks the connection status to ensure your entire IP research workflow is operational and reliable.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/epo-open-patent-services** — connect your AI agent in three steps.

01 Subscribe to this MCP in Vinkius, then enter your specific EPO Consumer Key and Secret.

02 Connect the service credentials to your preferred AI client (like Cursor or Claude).

03 Tell your agent what you need—for example, 'Find all patents related to battery storage.' The agent executes the necessary commands and returns the structured data.

The bottom line is that you keep patent research fully within your natural language workflow, eliminating manual database navigation.

Built For

This MCP is for IP lawyers who spend too much time cross-referencing legal texts.
It's for R&D leads who need to quickly assess competitive threats before a meeting.
If your job involves knowing the exact history of an invention, this tool saves hours.

Patent Attorney

You use it to verify the legal status of potential client filings or audit existing IP portfolios against new market entrants.

R&D Lead

You run rapid searches on competitive patents, pulling titles and applicants to identify technology gaps for your next product iteration.

IP Analyst

You perform deep-dive archival classification by querying detailed bibliographic data for specific document IDs.

What Changes When You Connect

01 You don't need to manually visit the EPO website. Your agent handles all searches, pulling metadata like titles and applicants directly into your chat interface using `search_epo_patents`.

02 Stop guessing about patent validity. The `get_patent_legal_status` tool gives you an immediate answer on whether a filing is granted or still pending.

03 Deep-dive classification becomes effortless. Need the full details for a specific ID? Use `get_patent_bibliographic` to grab titles, dates, and all necessary metadata in one go.

04 When running competitive intelligence, your agent manages complex queries using `search_epo_patents`, letting you monitor entire technology sectors without writing complicated search syntax.

05 You always know if the data source is reliable. The `check_api_status` tool confirms the service is active before you start a critical research session.

Real-World Applications

Assessing Competitive Threat

An R&D lead needs to know what patents exist in the EV battery space. They ask their agent, 'Search for patents related to solid-state batteries.' The agent runs `search_epo_patents` and returns a list of potential competitors, which the lead can then analyze further.

Due Diligence on Acquisition Target

A patent attorney needs quick legal certainty. They input a rival's document ID. The agent runs `get_patent_legal_status` and confirms if the IP is truly enforceable, providing crucial due diligence data.

Archival Research

An IP analyst has an old document ID but needs modern context. They use `get_patent_bibliographic`, retrieving all associated metadata to classify it accurately for their corporate records.

Ensuring Data Integrity

Before starting a massive project, the team lead asks the agent to run `check_api_status`. This verifies the connection is active, preventing wasted time and failed searches later in the day.

Patterns to Avoid

Treating it like a search engine

✗ AVOID

Manually copying patent IDs from web pages into separate forms on the EPO site. This is tedious, slow, and prone to copy-paste errors.

✓ INSTEAD

Instead, tell your agent to use `get_patent_bibliographic` with the list of IDs. The MCP handles the data intake and retrieval in a single command.

Assuming validity without checking

✗ AVOID

Relying on an outdated internal report that claims a patent is valid, only to find out later it's disputed or lapsed.

✓ INSTEAD

Always run `get_patent_legal_status` first. This tool gives you the official, current legal standing directly from the source.

Doing searches without scope

✗ AVOID

Running a vague search that returns thousands of results, forcing you to wade through irrelevant patents.

✓ INSTEAD

Use `search_epo_patents` and specify clear criteria (like 'semiconductor' or 'wind turbine'). The agent scopes the search so you only see relevant filings.

The Right Fit

You should use this MCP if your work requires verifying specific, authoritative intellectual property data—for instance, checking a patent's legal status or retrieving its core metadata by ID. It's built for structured IP auditing and competitive intelligence gathering. Don't use it if you are trying to draft general marketing copy or summarize non-technical documents; that requires an LLM alone. If your goal is merely semantic research across *unstructured* text (like reading old white papers), a document indexing tool might be better. However, if the core need is always 'What does this patent say?' or 'Is this patent still active?', then `get_patent_legal_status` and `search_epo_patents` are exactly what you need.

Tracking patents used to be an administrative nightmare.

Today, if you're tracking intellectual property for a client or competitor, your workflow looks like this: You find a reference number. Then, you open the EPO portal in one tab. You paste the ID into another form. You click submit. If it works, you copy key data points—the title, the date, the applicant—and paste them into a third spreadsheet. This is slow, and half the time, you're guessing if the data you got is even current.

With this MCP, that process disappears entirely. You simply ask your agent to 'Get me all the bibliographic details for these five patents.' The tool handles the connection, the querying, and the return of clean, structured data points—all without leaving your chat window.

Accessing Patent Data with `get_patent_bibliographic`

The manual steps that vanish are the multiple context switches: opening the browser, finding the right form field for 'Document ID,' and then having to manually cross-check which fields contain the applicant vs. the title. You also waste time confirming if the document you found is even current.

Now, when your agent runs `get_patent_bibliographic`, it pulls every required data point—titles, applicants, dates—and presents them instantly and accurately. It’s not just faster; it's a complete shift in how reliable IP analysis happens.

EPO Open Patent Services: 4 Tools

Use these four tools to perform comprehensive IP research tasks—from broad patent searches to checking the precise legal standing of any document.

#	TOOL	DESCRIPTION
01	`check_api_status`	Verifies if the EPO Open Patent Services connection is currently working and operational.
02	`get_patent_bibliographic`	Retrieves comprehensive metadata, such as titles and applicants, for a patent using its document ID.
03	`get_patent_legal_status`	Checks the precise current legal standing of any given patent publication.
04	`search_epo_patents`	Runs complex searches across the EPO database to find multiple published patents matching specific criteria.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U Search for patents related to 'electric vehicles' using EPO OPS.

I've retrieved several patents related to electric vehicles! Notable entries include innovations in battery management and charging infrastructure. Would you like the full bibliographic metadata or the legal status for any of these records?

U What is the legal status of patent 'EP1234567'?

I've retrieved the legal status for EP1234567! It is currently identified as 'Granted' and was last updated on [Date]. I can assist you with the full history of administrative markers for this publication if you'd like.

U Get bibliographic details for Doc ID 'US20230000001'.

I've retrieved the bibliographic metadata for US20230000001! It is a patent titled [Title] by applicant [Applicant]. I can provide the abstract and classification markers to help you identify it in your workflow.

Frequently Asked Questions

01 **How do I use the EPO Open Patent Services MCP to search for patents?**

Use `search_epo_patents` and provide the agent with clear keywords, technology areas, or document types. The tool executes a targeted query across the entire database.

02 **What is the difference between bibliographic and legal status using this MCP?**

Bibliographic data (`get_patent_bibliographic`) gives you factual details about the patent (who, what, when). Legal status (`get_patent_legal_status`) tells you if those rights are currently enforceable.

03 **Does the EPO Open Patent Services MCP require me to input credentials?**

Yes. You must subscribe and provide your specific consumer key and secret for the agent to authenticate with the authoritative source.

04 **Can I check if the patent search connection is working before a big project?**

Absolutely. Run `check_api_status` first. This quickly confirms that all services are online and ready for your research workflow.

Go Live in 60 Seconds

Get your connection token from **cloud.vinkius.com**, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"epo-open-patent-services": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → Add endpoint URL
ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

- Ask ChatGPT
- Ask Claude
- Ask Perplexity
- Ask Gemini
- Ask Grok

READY TO CONNECT

EPO Open Patent Services is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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