

Pytant – Minimal AI Patent Forge

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License: Apache 2.0

Title of the Invention

Pytant – Minimal Repository-Based System for AI-Supported Patentable Idea Development

Technical Field

This invention relates to the field of intellectual property (IP) systems, specifically to lightweight, repository-based structures for managing, documenting, and optionally protecting AI-supported inventions.

Background of the Invention

Current AI-based patent tools focus on claim writing, prior art comparison, and text optimization. These include tools such as DeepIP, AutoPatent, and PatentGPT. However, these existing systems generally involve complex interfaces and emphasize automation of later-stage patent processes, lacking support for the initial creative ideation phase. They typically do not document the idea generation workflow itself, nor do they integrate version control effectively to ensure auditability and traceability. Moreover, they often treat AI purely as an automation tool rather than as an active co-agent in collaboration with humans.

Thus, there exists a clear need for a minimal, lightweight, human-first approach that leverages AI support to systematically document, structure, and optionally protect early-stage, novel ideas without relying on complex legal tools or specialized software.

Summary of the Invention

This invention provides a repository structure where AI models — under user instruction — generate, refine, and export invention drafts. The system uses markdown- and folder-based workflows, version control (e.g., Git), and a simple instruction file (`INSTRUCTIONS.md`) to:

- Structure the invention process from ideation to export
 - Enable AI code editors (e.g., Cursor, Copilot) to participate in the ideation
 - Record authoring and review steps for legal audit
 - Generate defensible claims and outputs ready for IP registration or publication
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Sample Implementation

A public implementation of this system is available at:

<https://github.com/autiwire/pytant>

This repository serves both as a reference implementation and a live demonstration of the system in action.

Detailed Description of the Invention

The repository contains the following core elements:

```
pytant/  
  INSTRUCTIONS.md          # Central protocol for AI-human interaction  
  ideas/                   # Early-stage idea files (YAML, MD)  
  claims/                  # Drafted patent-like texts  
  outputs/                 # Export bundles (e.g. disclosure packages)  
  README.md                # This file - doubling as specification
```

AI Interaction

The system assumes a human-in-the-loop setup where AI proposes structures, claims, and summaries based on guidance in `INSTRUCTIONS.md`. Every file generated is recorded in a timestamped Git commit. Personas and authorship information can be layered using optional metadata.

Export

Ideas and claims can be exported as `.zip` or `.md` via scripting (e.g. Python), and automatically published to defensive archives (GitHub, ArXiv, Zenodo).

Example Claims (non-limiting)

1. A repository-based system for generating, recording, and protecting AI-assisted patentable ideas via instruction-guided human-AI interaction.
2. The system of claim 1, wherein each output file is timestamped and version-controlled for traceability.
3. The system of claim 1, wherein no structured schema, manifest, or legal tooling is required.
4. The system of claim 1, wherein a single README file serves simultaneously as project overview and invention specification.
5. The system of claim 1, wherein an instruction file defines interaction logic between human and AI editor.

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This tool does not constitute legal advice or patent consultation. It supports technical documentation and ideation only. For legal assessments or formal patent filing, always consult a qualified attorney.

If any prior art overlaps with this concept, please contact raudzus@autiwire.de.

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For collaborations, legal use, or audit reference.

**This README is the invention. This repo is the patent forge.
Minimal structure. Maximum effect.**