

Abstract

An automated system streamlines drafting and filing responses to USPTO Office Actions. A secure intake module downloads official communications; a parser extracts rejections, cited references, and bibliographic data. A deadline engine computes statutory and extension periods. A fine-tuned language-model generator prepares arguments and proposed claim amendments. A compliance validator enforces 37 C.F.R. formatting and ethical rules, while a document assembler auto-creates ancillary forms—including IDS, RCE, petitions, and fee sheets—and updates deadlines and fees as strategy changes. A practitioner reviews and edits the package in a GUI; filing proceeds only after electronic approval. A submission adapter uses encrypted credentials to log into Patent Center, upload documents, pay fees, and capture the filing receipt. All actions are time-stamped in an immutable audit log. The platform reduces clerical effort, mitigates compliance errors, and preserves attorney control.