

PIRL Patent Portfolio

Protecting the Future of Verified Reality

PIRL has filed 8 comprehensive provisional patent applications protecting groundbreaking innovations in behavioral verification, AI-driven motivation, and effort-based reward systems. Our intellectual property portfolio covers the entire ecosystem from fraud detection to personalized engagement, establishing priority filing dates for core technologies that bridge physical effort verification with digital, financial, and real-world rewards.

Patent #1

PIRL Umbrella System

Comprehensive Platform for Verifying Real-World Activity and Delivering Conditional Digital, Financial, and Real-World Rewards

Unified ecosystem integrating all PIRL modules with multi-source verification fusion, cross-platform APIs, group consensus protocols, and enterprise-grade privacy compliance for comprehensive behavioral verification and reward delivery.

Patent #2

PIRL AI Mission Personalization Engine

Systems and Methods for AI-Driven Contextual Mission Generation and Adaptive Behavior Modification

AI-driven system that synthesizes environmental, temporal, and personal data to generate highly personalized behavioral challenges with predictive difficulty scaling and emergent mission creation.

Patent #3

LOCKR Digital Asset Vault

Systems and Interfaces for Secure Storage and Display of Non-Purchasable Digital Rewards

Secure digital vault storing effort-based rewards with blockchain anchoring, cross-platform integration, and administrative controls, creating persistent digital identity based on achievement rather than purchasing power.

Patent #4

PIRL Anti-Fraud Engine

Systems and Methods for Detecting and Preventing Fraudulent Behavior in Effort-Based Verification Systems

Multi-layered fraud detection using machine learning, GPS validation, biometric analysis, and social verification networks to prevent spoofing and coordinated gaming schemes in effort-based platforms.

Patent #5

PIRL Value Engine

Systems and Methods for Behavior-Gated Financial Incentive Multipliers

Cryptographic escrow system that amplifies deposited funds based on verified behavioral achievements, transforming financial motivation from passive spending to active behavioral investment.

Patent #6

PIRL Edge AI Processing Engine

Systems and Methods for Privacy-Preserving Real-Time Behavioral Analysis Using Edge Computing and On-Device Machine Learning

Complete on-device behavioral analysis and fraud detection without data transmission, using federated learning and hardware-optimized processing to address privacy concerns in regulated environments.

Patent #7

PIRL Social Dynamics Engine

Systems and Methods for Real-Time Social Coordination and Viral Behavior Prediction in Effort-Based Platforms

Advanced social coordination platform using network analysis and machine learning to predict viral behavior patterns, optimize peer matching, and amplify positive behavior propagation through intelligent group dynamics.

Patent #8

PIRL Audio Motivation Engine

Systems and Methods for Comprehensive Behavioral Intervention Using Real-Time Location and Activity-Based Personalized AI Voice Synthesis

AI-powered voice synthesis system delivering personalized motivational audio using user's own voice and family members, with real-time contextual intervention spanning daily motivation to therapeutic crisis support.

USPTO Application #63/861,215 | Filed August 10, 2025

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"Making effort visible, valuable, and viral through verified reality."

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