

Summary

An electromechanical keyboard instrument that replaces traditional piano hammers with reciprocating bow actuators, enabling sustained, expressive tones previously impossible on keyboard instruments. The design combines the immediacy of keyboard performance with the timbral richness of bowed strings, bridging the gap between piano, violin, and harp families.

Key Innovation: Spool-fed rosined ribbon system with three independently controllable bow positions per string, creating distinct timbral zones analogous to harpist hand positioning.

Status: Complete conceptual design with manufacturing, user experience, and business model architecture.
