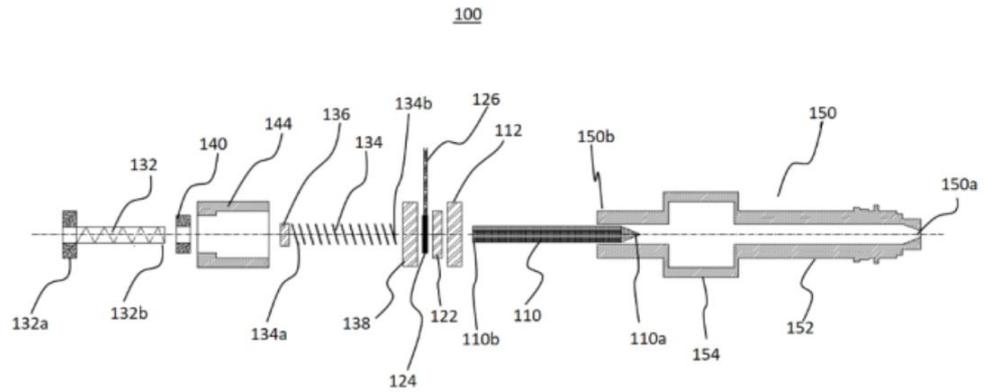


GRANTED

(IN514840)

A device for making designs on a substrate



NEED

Manual design-making often faces issues with inconsistent pressure application, leading to inaccuracies. What if precision could be achieved in real-time, ensuring consistent and controlled force during each stroke?

TECHNOLOGY OVERVIEW

This invention describes a device for making designs on substrates by precisely controlling nib force through a force sensor and screw-spring mechanism. It allows for adjustable and accurate pressure, resulting in consistent strokes for detailed designs.

TECHNOLOGY KEY FEATURES

Precision control, consistent nib force, screw-spring mechanism, force sensor integration, adjustable stroke, real-time feedback, enhanced design accuracy, easy integration with substrate, versatile for different substrates, suitable for industrial design tasks.

[Read more here](#)

Technology is available for licensing/ co-development.

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MARKET ANALYSIS

The global manufacturing automation market is expected to grow at a CAGR of 9.5% from 2023 to 2033 [Source: Fortune Business Insights, 2023]. The demand for precise design and automation is rapidly increasing.

Target Industries

Precision Manufacturing, 3D Printing, Automated Design Systems, Industrial equipment manufacturers, design automation software providers, precision machinery makers, and automated tool developers in the manufacturing sector.

AT A GLANCE

- SDG 9 (Industry, Innovation, and Infrastructure), SDG 12 (Responsible Consumption and Production)