

Laser Welding with Beam Oscillation

ID# 2001-0724



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TECHNOLOGY READINESS LEVEL

8-10

Seeking

Investment | Licensing | Research

Keywords

- laser welding
- stir welding

Researchers

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Technology Summary

The present invention encompasses novel approaches to laser welding using breakthrough technology improvements. These improvements are intended to increase the mainstream usage of laser welding systems throughout many of today's industrial sectors. This cutting-edge technology is designed to decrease costs associated with laser welding systems while at the same time improving the quality of welds produced.

Application & Market Utility

Lap-penetration joints and lap-fillet joints, common in welding industries, are difficult to accomplish using current laser welding technology due to issues with weld quality; defects arise from instabilities within the keyhole. The present technology overcomes these limitations. Technology is protected by U.S. patents 6,740,845 and 7,154,065. Patent protection for this technology also exists in multiple non-U.S. countries.

Next Steps

Seeking research collaboration and licensing opportunities.



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