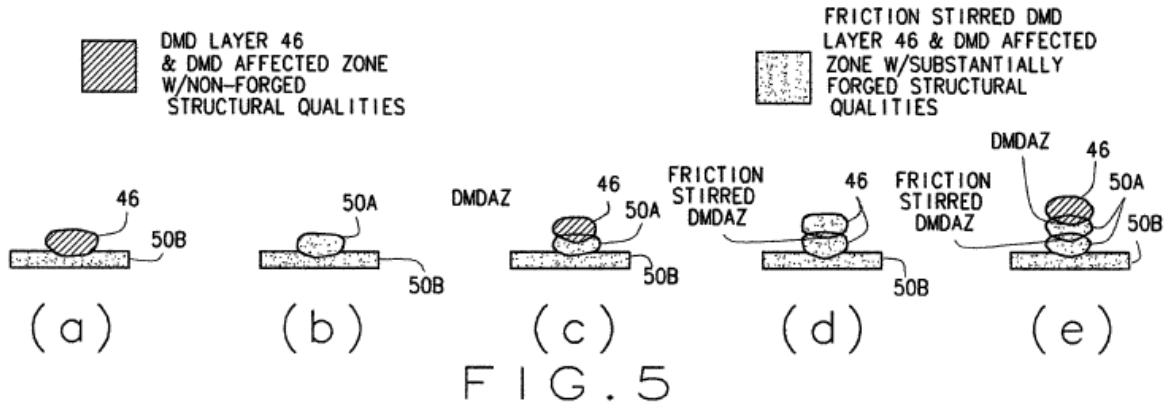


RECRYSTALLIZED LASER DEPOSITED MATERIALS

This technology is a direct metal deposit with friction a friction stir process that results in a finished aggregated piece with comparable full structural quality to a wholly forged piece. This means that a broken part may be repaired with excellent bonding and strength or a piece may be constructed using rapid prototyping to result in a fully formed piece with completely bonded layers. The inventors showed a Ti-6Al-4V direct metal deposition layer could be formed with forged like characteristics.



POTENTIAL AREAS OF APPLICATIONS:

- ☑ Metal part repair
- ☑ Metal part fabrication
- ☑ Metal part design

PATENT STATUS: US Utility Patent Application No. 12/787,075

INVENTOR(S): Joseph Newkirk; Frank Liou; Romy Francis

CONTACT INFO: Keith Strassner; kdstrass@mst.edu; 573-341-6725

Eric Anderson; ericwa@mst.edu; 573-341-4551; Vera Anderson; vera@mst.edu; 573-341-7263