

SIMULTANEOUS OFFSET DUAL SIDED LASER SHOCK PEENING USING LOW ENERGY LASER BEAMS

ABSTRACT

A method for laser shock peening (LSP) an article (108) by simultaneously firing low energy first and second laser beams (102, 103) to form pairs of longitudinally spaced apart (LD) first and second laser shock peened spots (158, 159) that are on opposite sides of the article (108), simultaneously laser shock peened, and transversely offset (OS) from each other. Each of the low energy first and second laser beams (102, 103) having a level of energy of between 1-10 joules.

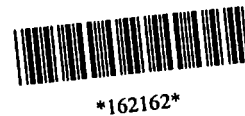


Fig. 1