

HIGH-EFFICIENCY LINE-FORMING OPTICAL SYSTEMS AND METHODS USING A SERRATED SPATIAL FILTER

Abstract

High-efficiency line-forming optical systems and methods that employ a serrated aperture are disclosed. The line-forming optical system includes a laser source, a beam conditioning optical system, a first aperture device, and a relay optical system that includes a second aperture device having the serrated aperture. The serrated aperture is defined by opposing serrated blades configured to reduce intensity variations in a line image formed at an image plane as compared to using an aperture having straight-edged blades.

Fig. 2