

**HIGH EFFICIENCY LAMP APPARATUS FOR PRODUCING A BEAM OF
POLARIZED LIGHT**

ABSTRACT OF THE DISCLOSURE

5 An electrodeless lamp apparatus of high efficiency employs a reflection system that allows the lamp to reabsorb light energy. The energy is redirected back to the light to provide increased system efficiency. The redirected light is of the wrong polarization and/or wrong parts of the color spectrum. The lamp efficiency is increased because of the optical pumping as well as the reuse (after some downshifting) of the returned light. In one embodiment, a projection system provides an image source or projection engine that includes the improved high efficiency lamp of the present invention.

(Fig. 1)