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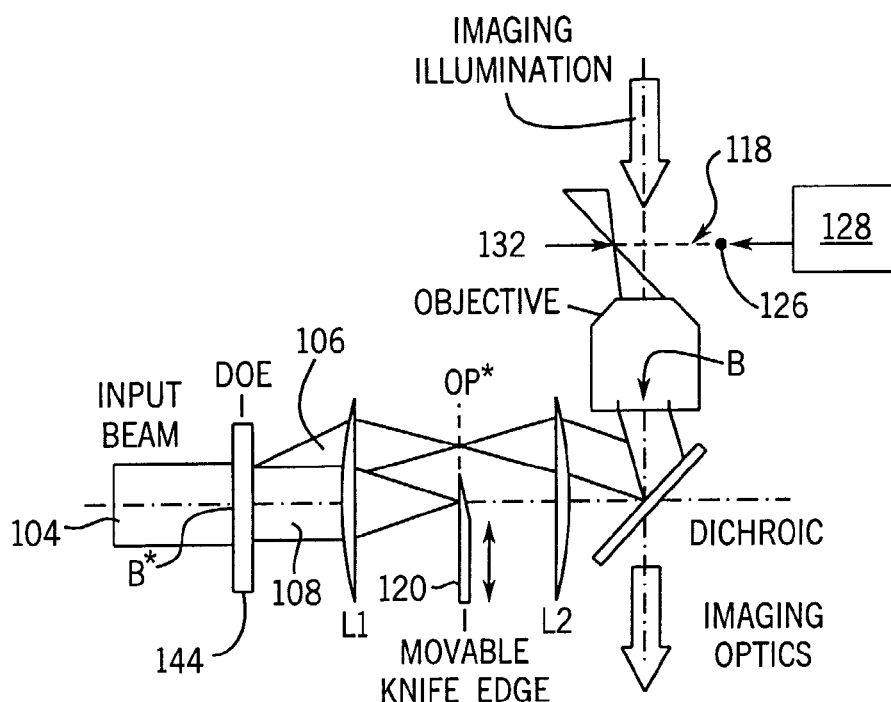
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[Continued on next page]

(54) Title: APPARATUS FOR APPLYING OPTICAL GRADIENT FORCES



(57) Abstract: A method and apparatus for control of optical trap arrays and formation of particle arrays. The method and apparatus provides a laser and a time variable diffractive optical element to allow dynamic control of optical trap arrays and consequent control of particle arrays and also the ability to manipulate singular objects using a plurality of optical traps.



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