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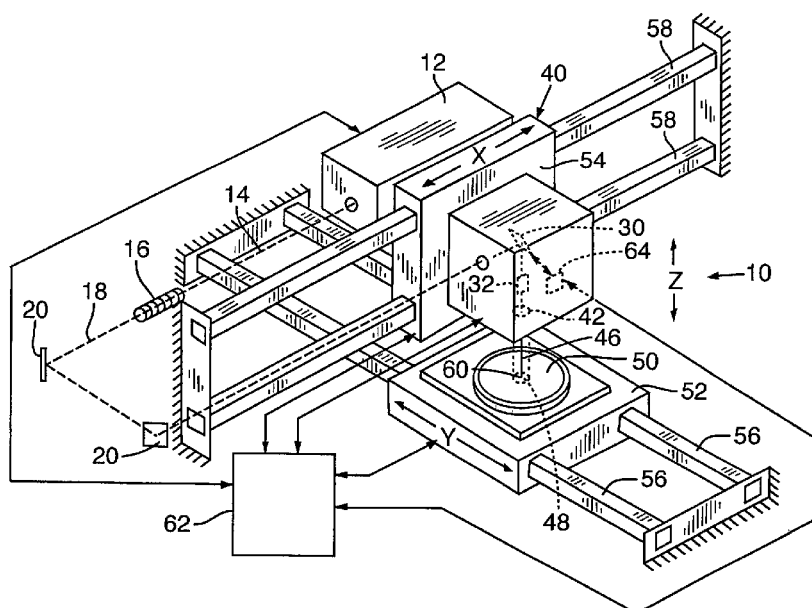
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(54) Title: METHOD FOR LASER MACHINING A WORKPIECE WITH LASER SPOT ENLARGEMENT



(57) Abstract: An fast steering mirror (30) , such as a PMN actuated mirror, is positioned in a beam path (18) of a stage-based positioning system (40) to continuously move a laser beam (46) in a high speed prescribed pattern about a nominal target position (60) to spatially separate focused laser spots (48) generated at a high laser repetition rate and thereby create geometric features having dimensions greater than those of the focused laser spot (48). A series of laser spots (48) at a given repetition rate appear as a series of larger diameter laser spots at a lower pulse rate without beam quality problems associated with working out of focus.



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