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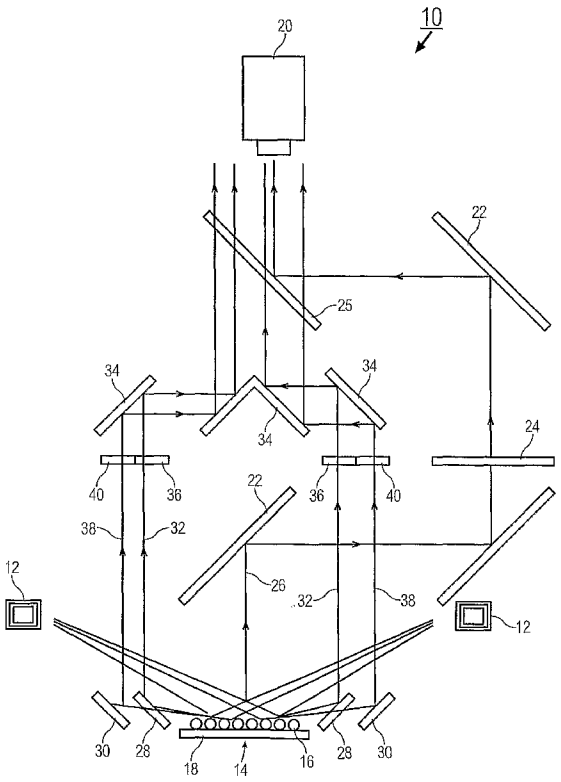
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(54) Title: METHOD AND APPARATUS FOR BUMP INSPECTION



(57) Abstract: A method of dynamically imaging, calibrating and measuring bump height and coplanarity of a plurality of bumps (16) on a surface (18) is disclosed, including illuminating the plurality of bumps (16) with multispectral light from at least one source (12), and receiving light of a first wavelength at an imaging device (20) such that the light of the first wavelength is reflected off the plurality of bumps (16) at a first angle to the surface and a top view image of at least a portion of a plurality of bumps (16) is captured. Light of a second wavelength is received at the imaging device (20) such that light of the second wavelength is reflected off the plurality of bumps (16) at a second angle from the surface and at least one oblique side view image of at least a portion of a plurality of bumps (16) is captured. The captured images are processed to determine absolute bump height and coplanarity. Wavelength-selective filters (36, 40) and dichroic mirrors (25, 28, 30) may also be used.

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