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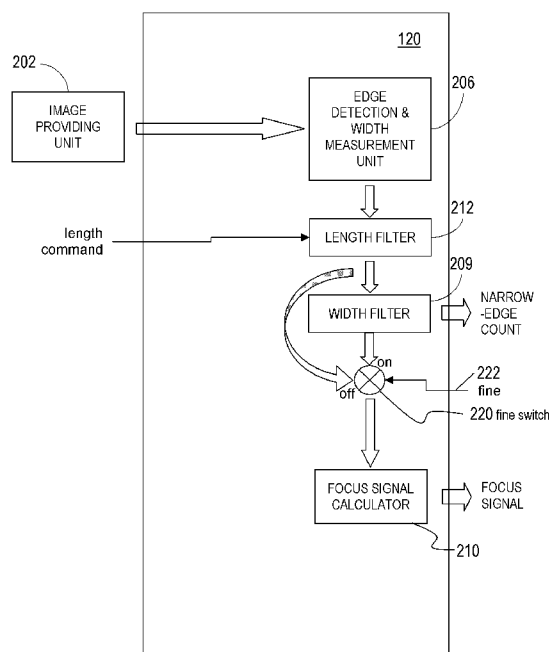
(54) **Title:** AUTO-FOCUS IMAGE SYSTEM

FIG. 3

(57) **Abstract:** An auto focus image system that includes a pixel array coupled to a focus signal generator. The pixel array captures an image that has at least one edge with a width. The focus signal generator may generate a focus signal that is a function of the edge width and/or statistics of edge widths. A processor receives the focus signal and/or the statistics of edge widths and adjusts a focus position of a focus lens. The edge width can be determined by various techniques including the use of gradients. A histogram of edge widths may be used to determine whether a particular image is focused or unfocused. A histogram with a large population of thin edge widths is indicative of a focused image. The generator may eliminate an edge having an asymmetry of a gradient profile of an image signal. The generator may also eliminate an edge that fails a template for an associated peaking of the gradient.



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