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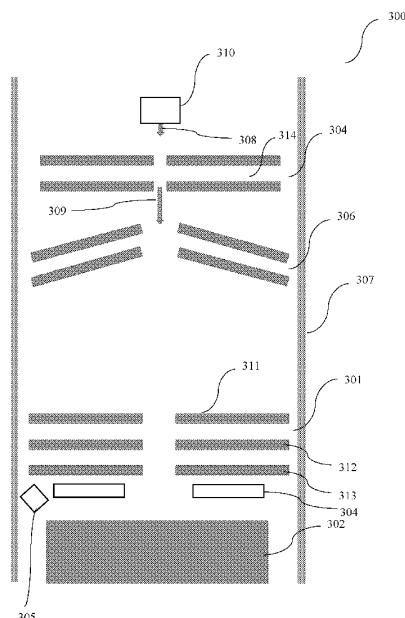


Figure 3

(57) Abstract: An ion microscope, a method of constructing an ion microscope, and a method of aligning an ion beam in an ion microscope. The microscope comprises a nano-aperture ion source; and a focusing system; wherein the focusing system is configured for selectively coaxially focusing an ion beam generated from an electron beam ionizing an ionizing gas in the nano-aperture ion source and the electron beam.

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