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Ouyang et al.

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(54) **SYSTEMS AND METHODS FOR TRANSFER OF IONS FOR ANALYSIS**

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CPC ..... H01J 49/0404; H01J 49/0027; H01J 49/0031; H01J 49/04; H01J 49/0422; (Continued)

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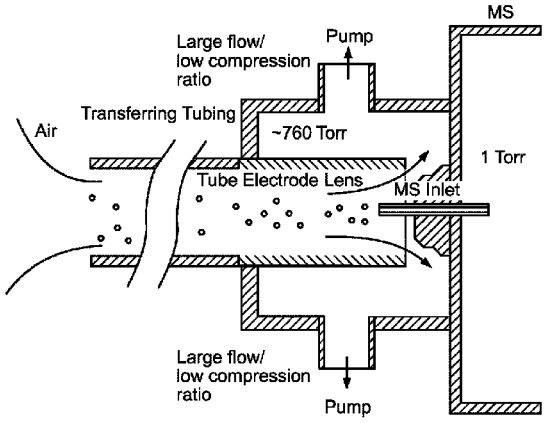
(57) **ABSTRACT**

The invention generally relates to systems and methods for transferring ions for analysis. In certain embodiments, the invention provides a system for analyzing a sample including an ionizing source for converting molecules of a sample into gas phase ions in a region at about atmospheric pressure, an ion analysis device, and an ion transfer member operably coupled to a gas flow generating device, in which the gas flow generating device produces a laminar gas flow that transfers the gas phase ions through the ion transfer member to an inlet of the ion analysis device.

17 Claims, 19 Drawing Sheets