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(54) Title: SELF-BALANCING IONIZED GAS STREAMS

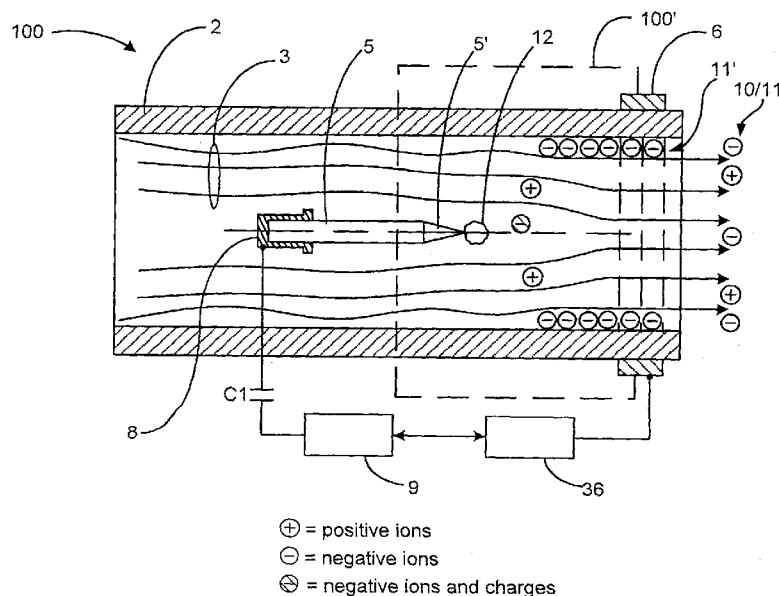


Figure 2

(57) Abstract: Self-balancing, corona discharge for the stable production of electrically balanced and ultra-clean ionized gas streams is disclosed. This result is achieved by promoting the electronic conversion of free electrons into negative ions without adding oxygen or another electronegative gas to the gas stream. The invention may be used with electronegative and/or electropositive or noble gas streams and may include the use of a closed loop corona discharge control system.

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