

Title (en)

SYSTEMS AND METHODS FOR EXTRACTING IONS FROM A GAS FLOW

Title (de)

SYSTEME UND VERFAHREN ZUR EXTRAKTION VON IONEN AUS EINEM GASSTROM

Title (fr)

SYSTÈMES ET PROCÉDÉS POUR L'EXTRACTION D'IONS À PARTIR D'UN FLUX DE GAZ

Publication

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Application

EP 21916461 A 20211230

Priority

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Abstract (en)

[origin: WO2022147201A1] Systems for extracting ions from a gas flow include a housing, an ion manipulation path, and a pump. The housing includes entrance, exit, and vacuum pump ports. The entrance port is configured to receive a gas flow comprising ions and gas. The ion manipulation path includes first and second surfaces respectively having first and second pluralities of electrodes, and is positioned within the housing and configured to receive the gas mixture, extract ions therefrom, and transmit the extracted ions toward the exit port. The pump is configured to extract the gas through the vacuum pump port. Methods for extracting ions from a gas flow include extracting ions from a gas flow containing ions and gas using an ion manipulation path, transmitting the extracted ions toward an exit port of a housing using the ion manipulation path, and extracting the gas from the housing through a vacuum pump port.

IPC 8 full level

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