

Title (en)

ION SOURCE FOR GENERATING NEGATIVELY CHARGED IONS

Title (de)

IONENQUELLE ZUR ERZEUGUNG NEGATIV GELADENER IONEN

Title (fr)

SOURCE D'IONS POUR LA PRODUCTION D'IONS CHARGÉS NÉGATIVEMENT

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2008012094A2] An ion source for generating negatively charged ions is presented and described, said ion source having a closure plate which is provided with an outlet opening and which has a wall which surrounds a combustion chamber, wherein the wall has a tubular section, which extends from the outlet opening and is formed from an insulating material, and has a rear wall, wherein the rear wall is arranged at the end of the tubular section which lies opposite the outlet opening and closes off the combustion chamber, having a coupling coil whose windings are arranged around the tubular section of the wall outside the combustion chamber, and having a filter field magnet. The problem of making available an ion source for generating negatively charged ions which has an increased yield and is also suitable for generating ions from substances which are only available in a gaseous form is solved by virtue of the fact that the rear wall is formed from an insulating material and has an inlet opening, and in that the filter field magnet is arranged on that side of the tubular section which faces away from the combustion chamber.

IPC 8 full level

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Citation (search report)

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