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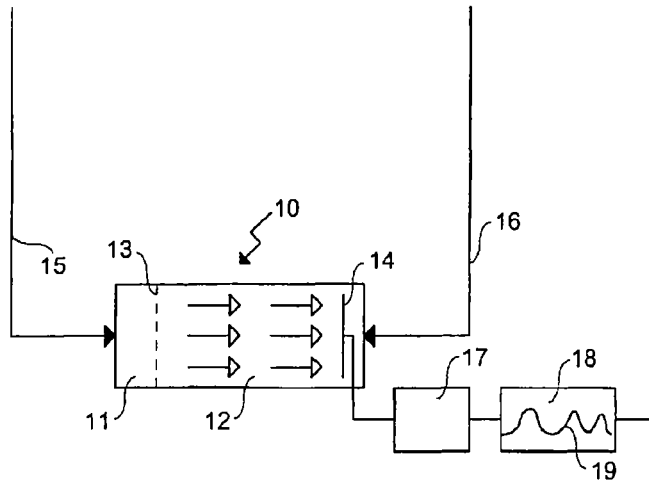
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(54) Title: METHOD FOR MEASURING THE CONCENTRATION OF WATER IN ARGON, HYDROGEN, NITROGEN AND HELIUM BY MEANS OF IONIZATION MOBILITY SPECTROMETRY



(57) Abstract: A method for measuring by means of ionization mobility spectrometry relatively high concentrations of water in argon, hydrogen, nitrogen and helium, characterized by comprising the followings operative steps: -introducing the gas to be analyzed into an IMS instrument (10) with a counter-flow of pure gas; -obtaining a signal (19) variable during the time and proportional to the number of ions detected by an ion detector (14) of the IMS instrument (10); -determining two time intervals (A, B) corresponding to the drift times in the IMS instrument (10) of the H_3O^+ and $(H_2O)_2^+$ ions; -obtaining the peaks of said signal (19) in the two determined time intervals (A, B); -calculating the water concentration in the gas to be analyzed according to the 1.5 ratio between the intensity of the two peaks obtained in the signal (19).

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