

Abstract

Process and apparatus for gravimetric test gas production by means of re-weighing

The invention relates to a process and an apparatus for gravimetric test gas production by means of re-weighing. In order to achieve complete automation of the test gas production, it is proposed to weigh an evacuated gas container, provided with a controllable valve, on a balance, to connect a gas feed to the valve by means of a controllable adjusting element that is connected to the balance, to open the controllable valve automatically, to introduce the first test gas component, the amount introduced being monitored automatically by weighing and, after the required amount has been reached, the controllable valve being closed, to release the connection between the gas feed and the controllable valve by means of the adjusting element, and to separate the gas feed automatically from the balance, and to re-weigh the gas container. These steps are repeated correspondingly for each further test gas component to be introduced into the gas container.