

GAS CHROMATOGRAPH-MASS SPECTROMETER TRANSFER LINE

ABSTRACT OF THE DISCLOSURE

5 **[0030]** A transfer line for conveying the column effluent from a gas chromatograph to an ion source of a mass spectrometer has a transfer line body and a mechanism for moving the transfer line body either towards or away from the mass spectrometer. A gas seal between the housing of the mass spectrometer and the transfer line body prevents vacuum leak when the transfer line body is moved. In one
10 embodiment, the transfer line body outer periphery is threaded and a hand wheel engages the transfer line body threads via complementary threads in order to move the body. When the transfer line is moved towards the mass spectrometer, the body presses an ion source, which is not rigidly fixed to the housing of the mass spectrometer, into a recess seat of the housing, and aligns the ion source in an
15 operating position.

Figure 1