

Title (en)

CRYOGEN FREE COOLING APPARATUS AND METHOD

Title (de)

KRYOGENFREIE KÜHLVORRICHTUNG UND VERFAHREN

Title (fr)

APPAREIL ET PROCÉDÉ DE REFROIDISSEMENT SANS CRYOGÈNE

Publication

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Application

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Abstract (en)

[origin: WO2010106309A2] A cryogen free cooling apparatus comprises at least one heat radiation shield (54) surrounding a working region (20) and located in a vacuum chamber (4). A cryogen free cooling system has a cooling stage coupled to the heat radiation shield (54). Aligned apertures (56,58) are provided in the heat radiation shield and vacuum chamber walls. Sample loading apparatus has a sample holding device (2) attached to one or more elongate probes (3) for inserting the sample holding device through the aligned apertures (56,58) to the working region (20); and a thermal connector enables the sample holding device to be releasably coupled for heat conduction via said connector to a cold body or cold bodies within the vacuum chamber so as to pre-cool a sample on or in the sample holding device.

IPC 8 full level

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