

ABSTRACT

The present disclosure provides a diffraction detection apparatus, an inspection device, an inspection method and an inspection system. The diffraction detection apparatus includes a bracket, a diffraction radiation source, and a diffraction radiation detector, where the diffraction radiation detector and the diffraction radiation source define an inspection channel extending along a first direction, and the diffraction radiation detector is configured to receive diffracted radiation from an inspected object on the inspection channel to determine a characteristic of a substance causing diffraction. The bracket is configured to allow the diffraction radiation source and the diffraction radiation detector to move on the bracket across the inspection channel in a second direction, where the second direction is transverse to the first direction.