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(54) **Title:** ION GUIDE ASSEMBLY HAVING MULTIPLE ION GUIDES

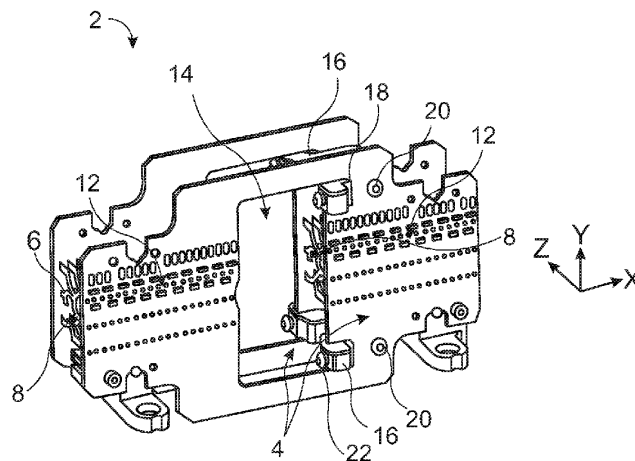


Fig. 1

(57) **Abstract:** An ion guide assembly (2) is disclosed comprising: two planar mounting components (4); and first and second ion guides (6,8) mounted on the two planar mounting components such that the ion guides are spaced apart from each other, wherein at least one of the planar mounting components has an aperture (14) therethrough that is located between the positions on said at least one mounting component at which the first and second ion guides are mounted; and an ion optical device sized and configured to be inserted through the aperture in the planar mounting component and into the space between the first and second ion guides.

[Continued on next page]

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