

## TEST HEAD VERTICAL SUPPORT SYSTEM

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### Abstract

A manipulator for translating a load along an axis of translation is provided. The manipulator comprises an outer column and a telescoping column positioned adjacent the outer column. The telescoping column is attached to the load and configured to translate the load along the  
10 axis of translation. At least one guiding member is mounted between the outer column and the telescoping column, wherein the guiding member is configured to guide the telescoping column as the telescoping column translates along the axis of translation.

15 Fig. 1A