Abstract

An Apparatus for Positioning a Surgical Instrument

This invention relates to an apparatus for positioning a surgical instrument in relation to a target. In a preferred embodiment, the apparatus (100) comprises a first positioning mechanism (102) arranged to move the surgical instrument along a L axis; a second positioning mechanism (104) comprising a γ axis rotation mechanism (502) arranged to rotate the first positioning mechanism (102) about a γ axis perpendicular to the L axis; a β axis rotation mechanism (504) arranged to rotate the γ axis rotation mechanism (502) about a β axis perpendicular to the γ axis and the L axis; and a third positioning mechanism (106) comprising a R axis rotating mechanism (902) arranged to rotate the second positioning mechanism (104) about a R axis parallel to the β axis; a Y axis movement mechanism (904) arranged to move the R axis rotating mechanism (902) along a Y axis parallel to the R axis; and a X axis movement mechanism (906) arranged to move the Y axis movement mechanism (904) along a X axis perpendicular to the Y axis.

[Fig. 1]

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