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(54) Title: VERTICAL TRANSLATION OF MOUSE OR TRACKBALL ENABLES TRULY 3D INPUT

(57) Abstract

A trackball enables entering 3D coordinates into a data processing system through both rotation of the ball and vertical translation of the ball relative to its casing. Software controlled tactile feedback means provides 3D tactile cues to the user when manipulating the ball. The trackball enhances interactivity in a multi-media environment.

