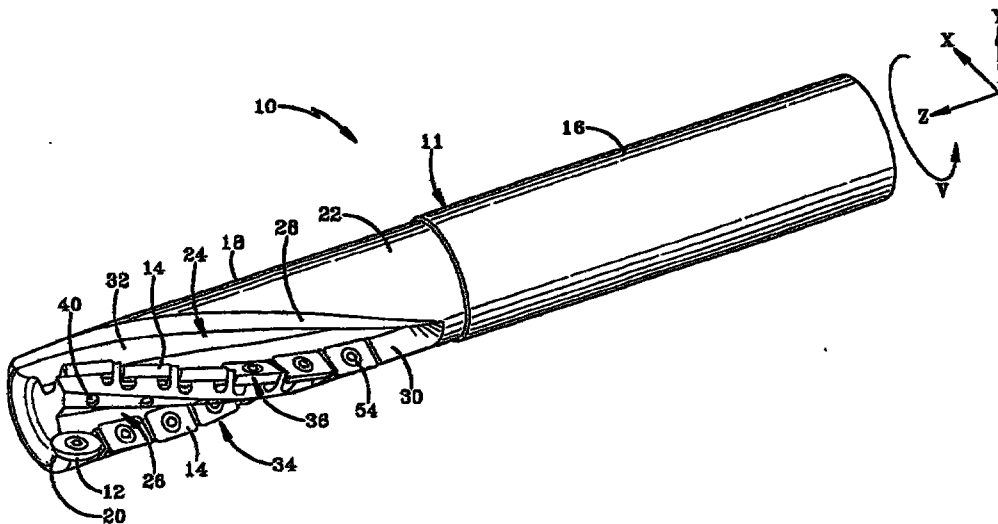




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(54) Title: MILLING CUTTER AND INSERT



(57) Abstract

A three-dimensional mill (10) capable of plunging, ramping, circle interpolating and other milling processes while providing a finished surface not in need of finish grinding. The milling cutter includes cutting inserts (12, 14) of a modified design including flats (100, 102, 104, 106) separating rounded corners of a two radius design. Each insert also includes a rail (50) that is secured to the milling cutter (10) along a longitudinal surface that is radial to the axis of the milling cutter at any cross-sectional plane.