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(54) **NUMERICAL CONTROL DEVICE**

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(58) **Field of Classification Search**
None
See application file for complete search history.

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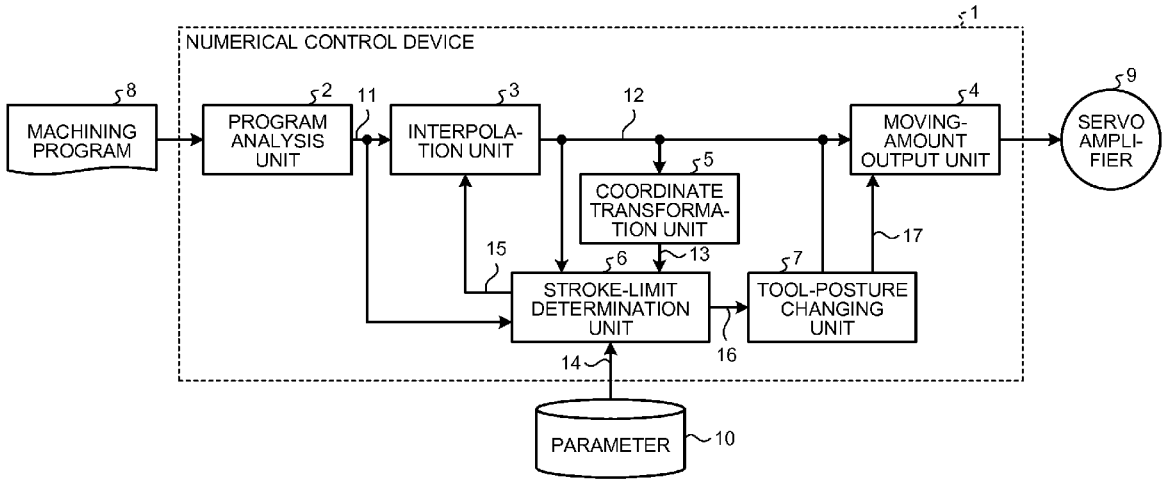
(57) **ABSTRACT**

A numerical control device for a working machine capable of controlling a tool posture relative to a workpiece using rotational driving of a rotary drive axis about a machine control point includes: an interpolation unit that performs an interpolation process on moving data generated from a machining program and outputs a position of the machine control point for each interpolation point; a coordinate transformation unit that transforms a position of the machine control point to a tool tip-point position; a stroke-limit determination unit that determines whether the position of the machine control point and the tool tip-point position fall within a range of a movable region, and selects and outputs a stroke limit signal indicating a stroke limit and a tool-posture changing command for instructing change of the tool posture; and a tool-posture changing unit that changes the tool posture in response to the tool-posture changing command.

10 Claims, 8 Drawing Sheets