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(54) **TURNING AND FACE GROOVING TOOL HAVING A PIN CLAMPING MECHANISM**

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See application file for complete search history.

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(57) **ABSTRACT**

A turning and face grooving tool body has a pocket and a pin. The pin has a unitary one-piece construction and an elongated shape which defines a longitudinal direction along a pin axis. The pin includes pin top and bottom ends, a pin peripheral surface which extends therebetween, and a pivot protrusion which extends outwardly from the pin peripheral surface. The pin is rotationally asymmetric about the longitudinal pin axis. The pocket includes a base surface, transverse support walls, and a pin bore which opens out to the base surface and includes a pin bore inner surface. The pin is located in the pin bore and the pin top end protrudes beyond the base surface. The pivot protrusion is spaced apart from the pin top and bottom ends, offset in the longitudinal direction from a pin midway-point which is located midway between the pin top and bottom ends.

20 Claims, 3 Drawing Sheets

