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[Continued on next page]

(54) Title: ASSEMBLY FOR RETAINING A CUTTING INSERT IN A POCKET OF A TOOL HOLDER

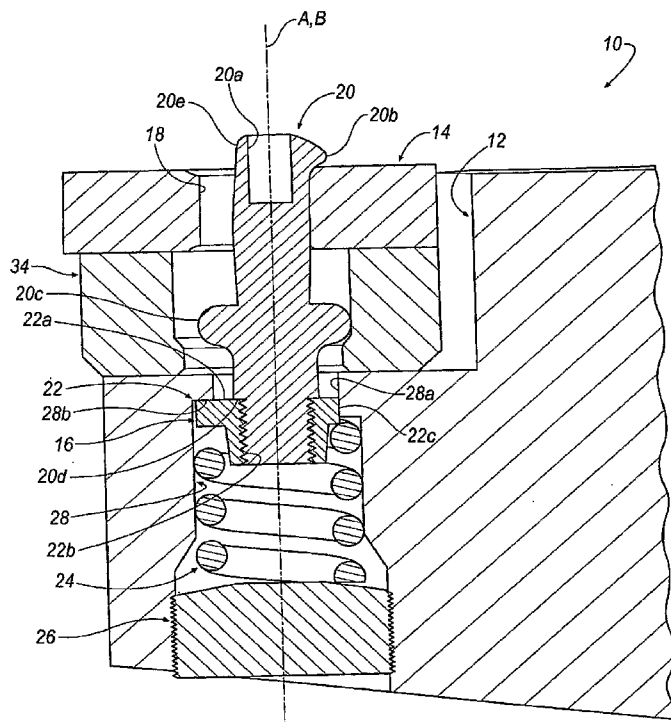


FIG. 2

(57) Abstract: An assembly (16) for retaining a cutting insert (14) in a pocket (12) of a tool holder (10) includes a locking pin (20, 20'), a spring (24) disposed in the bore (28) of the tool holder, a locking plate (22) disposed in the bore between the spring and the locking pin, and a set screw (26) for retaining the assembly. The locking plate (22) is biased against a ledge (28b) of the bore (28) to cause the locking pin (20, 20') to draw and retain the cutting insert (14) in a direction such that the cutting insert is held in a secured position against the pocket (12) of the tool holder (10). To release the cutting insert (14), a force is applied to the assembly (16) to counteract the biasing force of the spring (24). The locking pin 20' or the locking plate (22) may include a flat surface (20f, 22g) that cooperates with a flat surface (28a) on the bore (28) to act as a key to proper orientate the assembly (16) in the bore (28).

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USPC: 407/91, 104, 109

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 407/91, 104, 109, 105, 95, 96, 103

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,398,853 A (ERICKSON) 16 August 1983 (16.08.1983), entire document.	7-18
A	US 4,420,280 A (GUSTAFSON) 13 December 1983 (13.12.1983).	1-18
A	US 4,427,322 A (KROLL) 24 January 1984 (24.01.1984).	1-18



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