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[Continued on next page]

(54) Title: HYDRAULIC RESCUE TOOL WITH QUICK-CHANGE HEAD

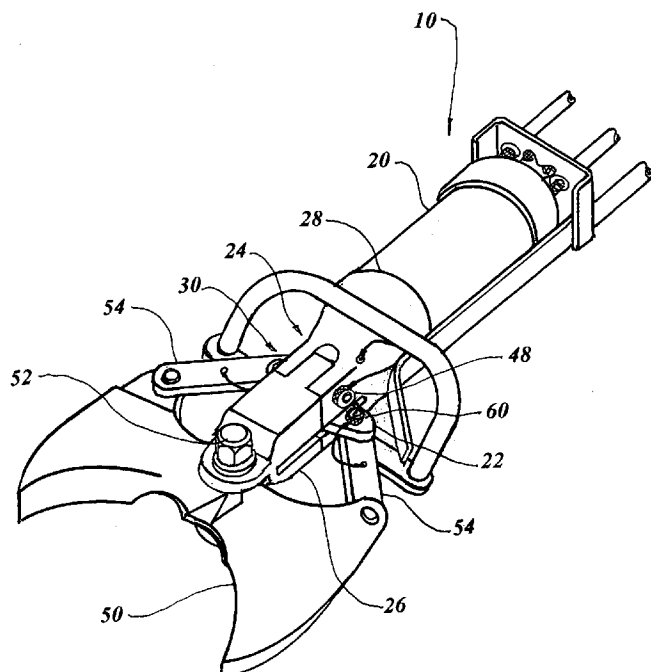


FIG. 1

(57) Abstract: A hydraulic rescue tool (10) with a quick-change head (26) that incorporates a cylinder (20) having a piston rod (22) and a forward end structure (24). The forward end structure (24) has a separable head and a cylinder attaching bifurcated yoke (28). A pair of yoke quick release pins (48) jointly engage the head (26) and the bifurcated yoke (28) thus, creating an attachment therebetween. A pair of cutting blades (50) are connected to the head (26), and links (54) connect to the piston rod on a first end and to the cutting blades (50) on a second end, thereby forcing the cutting blades from an open position to a closed position by movement of the piston rod (22). A pair of link quick release pins (60) engage the links (54), creating an attachment therebetween, permitting the links to be released by manually disengaging the quick release pins, thereby allowing the head, including the cutting blades, to be rapidly removed or repaired.



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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A63F 9/24 (2009.01)

USPC - 463/42

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)

IPC(8): A63F 9/24 (2009.01)

USPC: 463/42

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

USPC: 463/1, 2, 7, 33, 37, 43

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

Electronic Databases Searched: PubWEST; Google; Google Scholar;

Search Terms Used: quick, release, light emitting diode, LED, locate, tool, dark, rescue, hydraulic, yoke, pin, pins, tether, bifurcated, changing, head

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 7,107,812 B1 (PATTON et al.) 19 September 2006 (19.09.2006); Figs. 1-4; col 5, ln 37 to col 6, ln 65; col 7, ln 4-25	1-19
Y	US 4,531,289 A (BRICK) 30 July 1985 (30.07.1985); Figs. 4-6; col 5, ln 6-20	1-19
Y	US 4,234,990 A (COLBURN) 25 November 1980 (25.11.1980); Figs. 2-3; col 3, 39-41	7, 9, 16 and 18
Y	US 2005/0063177 A1 (CORREA) 24 March 2005 (24.03.2005); Abstract; Fig. 1	8, 10, 17, and 19

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

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