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(21) International Application Number: PCT/US98/22448 (22) International Filing Date: 23 October 1998 (23.10.98) (30) Priority Data: 08/961,304 30 October 1997 (30.10.97) US (71) Applicant: CATERPILLAR INC. [US/US]; 100 N.E. Adams Street, Peoria, IL 61629-6490 (US). (72) Inventors: GALE, Preston, L.; 16517 Woodfield Court, Mackinaw, IL 61755-8809 (US). LIVESAY, Richard, E.; 911 W. Brookforest Drive, Peoria, IL 61615-1073 (US). STICKLING, Christopher, J.; 12911 N. Bland Road, Dunlap, IL 61525-9636 (US). (74) Agents: PENCE, O., Gorden et al.; 100 N.E. Adams Street, Peoria, IL 61629-6490 (US).		(81) Designated States: AT, AU, BR, CA, CH, CN, CZ, DE, DK, ES, MX, NO, NZ, RO, RU, SE, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: MECHANICAL RETENTION SYSTEM FOR GROUND ENGAGING TOOLS (57) Abstract A mechanical retention system (16) is disclosed for detachably retaining a ground engaging tool (14) onto an earthworking implement (10). The retention system (16) uses an elongated steel retainer (76), which has a convolute spring portion (86) between opposite end portions (82, 84) of the retainer (76) to allow the retainer (76) to be compressible in one direction in order to be mounted through a retainer opening (64) in the tool (14) into a retainer pocket (38) in a mounting portion (20) of the implement (10).		