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(71) Applicant: **PMI Padana Macchine Industriali S.p.A.**
29010 Gossolengo PC (IT)

(72) Inventor: **Rossetti, Gabriele**
29017 Fiorenzuola d'Arda
(Piacenza) (IT)

(74) Representative: **Gotra, Stefano**
BUGNION S.p.A.
Largo Michele Novaro, 1/A
43100 Parma (IT)

(54) **Hydraulic apparatus and method for the insertion/extraction of pins on pinned booms of earth moving machines**

(57) A hydraulic apparatus for the insertion/extraction of pins on pinned booms of earth moving machines comprises at least one hydraulic cylinder (4) whose rod (5) is operatively connected with at least one pin (3) to

be inserted/extracted in order to associate/disassociate a base boom (1) of the machine with respect to a second boom (2) or accessory boom. Said at least one hydraulic cylinder (4) is applied internally and not in overhang on the pinned base boom (1) or on a part of the machine.

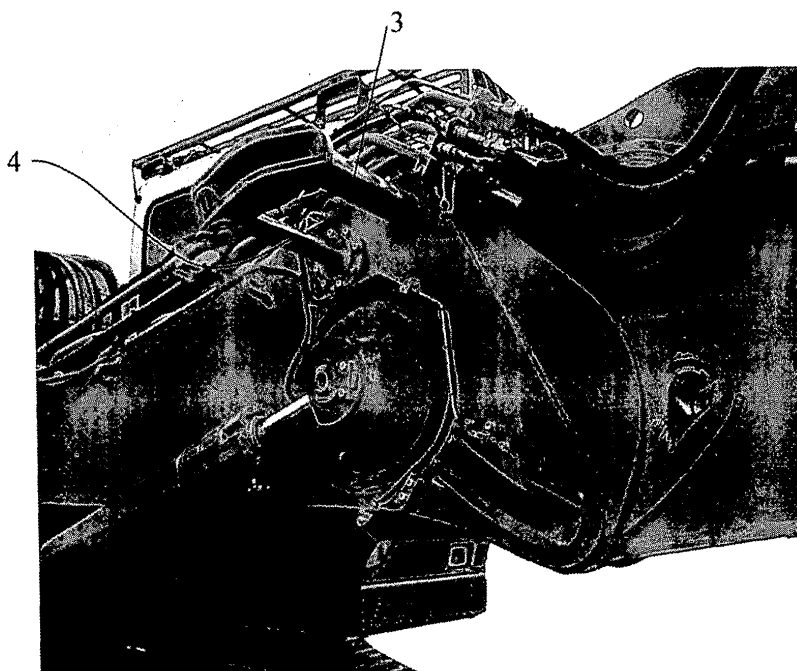


FIG. 5



European Patent
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EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 27 April 2007	Examiner Guthmuller, Jacques
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