

Title (en)  
Hydraulic RAM assembly.

Title (de)  
Hydraulischer Presskolben.

Title (fr)  
Vérin hydraulique.

Publication  
**EP 0203794 A1 19861203 (EN)**

Application  
**EP 86303944 A 19860523**

Priority  
GB 8513553 A 19850529

Abstract (en)  
A hydraulic ram assembly capable of providing a force varying over a wide range has a first ram with a fixed cylinder and a movable piston which is capable of supplying a force at the lower end of the range and a second ram with a fixed cylinder and a piston which is movable into engagement with the piston of the first ram to assist the first piston to thereby provide an increased load.

IPC 1-7  
**F15B 15/14**

IPC 8 full level  
**B21B 31/32** (2006.01); **F15B 11/036** (2006.01)

CPC (source: EP)  
**B21B 31/32** (2013.01); **F15B 11/0365** (2013.01); **F15B 2211/20538** (2013.01); **F15B 2211/30525** (2013.01); **F15B 2211/327** (2013.01); **F15B 2211/6336** (2013.01); **F15B 2211/7056** (2013.01); **F15B 2211/76** (2013.01)

Citation (search report)  
• [X] GB 1600733 A 19811021 - MIDGLEY A C  
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• [A] US 3053294 A 19620911 - HANS LINDBERG  
• [A] GB 944223 A 19631211 - DEWANDRE CO LTD C

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DE4108220C2; EP1459813A3; AT500476A1; AT500476B1

Designated contracting state (EPC)  
DE FR GB IT NL SE

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