

12 **EUROPEAN PATENT APPLICATION**

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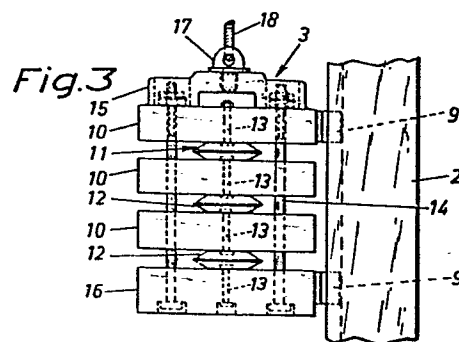
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54 **Improvements in pile driving machines.**

57 A device in pile driving machines including a drop hammer (3) which drives down piles into the ground.

The problem of preventing crushing and breaking damages to the piles is solved in accordance with the invention in that the drop hammer (3) consists of two or several superposed weight segments (10) arranged, against the action of spring members (11), to be drawn together as a result of their velocity energy when hitting the pile. The velocity energy is adjustable by control of the bias of the spring members (11) with the aid of connecting rods (14) passing through the weight segments (10).





European Patent  
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# EUROPEAN SEARCH REPORT

0038311  
Application number

EP 81 85 0061

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<u>US - A - 3 823 786 (VOITSEKHOVSKY)</u> * Column 1, lines 54-67; column 2, lines 15-26, 33-54; figures *	1, 3	E 02 D 13/10 7/08
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X	<u>US - A - 2 812 745 (PYK)</u> * Column 2, lines 36-60; column 3, lines 41-75; column 4, lines 1-5; figures 3, 4, 5 *	1, 3, 4, 5	
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X	<u>US - A - 3 245 482 (WILLIAMS)</u> * Column 1, lines 44-62; column 2, lines 1-17; figures 1, 2, 4 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl.)  E 02 D
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			CATEGORY OF CITED DOCUMENTS
			X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons
			&: member of the same patent family, corresponding document
<p><i>P</i> The present search report has been drawn up for all claims</p>			
Place of search The Hague		Date of completion of the search 20-08-1981	Examiner RUYMBEKE