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(71) Applicant: GÖTEBORGS BETONGPALAR AB  
Verkstadsgatan 3  
S-434 00 Kungsbacka 1(SE)

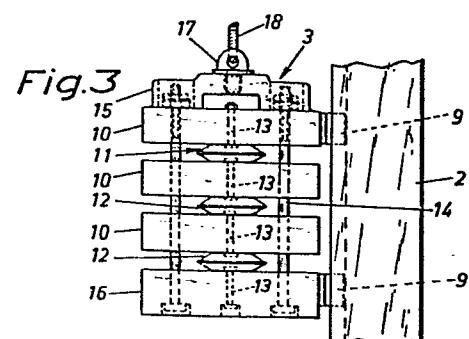
(72) Inventor: Johansson, John Ragnar  
Pl. 1810 Hjuvik  
S-423 00 Torslanda(SE)

(74) Representative: Ryrlén, Evert et al,  
ALFONS HEDBERGS PATENTBYRÅ AB  
Aschebergsgatan 35  
S-411 33 Göteborg(SE)

(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).





DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.3)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	TECHNICAL FIELDS SEARCHED (Int. Cl.3)
X	US - A - 3 823 786 (VOITSEKHOVSKY) * Column 1, lines 54-67; column 2, lines 15-26, 33-54; figures *	1,3	E 02 D 13/10 7/08
X	US - A - 2 812 745 (PYK) * Column 2, lines 36-60; column 3, lines 41-75; column 4, lines 1-5; figures 3,4,5 *	1,3,4, 5	
X	US - A - 3 245 482 (WILLIAMS) * Column 1, lines 44-62; column 2, lines 1-17; figures 1,2,4 *	1	E 02 D
The present search report has been drawn up for all claims			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
Place of search	Date of completion of the search	Examiner	
The Hague	20-08-1981	RUYMBEKE	