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## **EUROPEAN PATENT APPLICATION**

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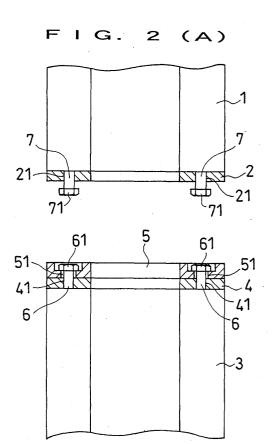
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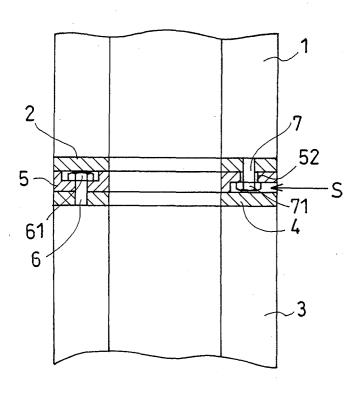
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#### (54) Pile connecting structure

The present invention, the objective of which is to provide a pile connecting structure of high workability capable of connecting upper pile 1 and lower pile 3 to each other simply and accurately, and preventing the pile diameter from becoming a large diameter even at this connecting portion, concerns a pile connecting structure for connecting upper pile 1 and lower pile 3 to each other, by interposing a connecting plate 5 of about the same diameter as the piles, at the connecting portion between the upper pile 1 and the lower pile 3, wherein the end plate 4 of either one 3 of the upper pile 1 or lower pile 3 and the connecting plate 5 are fixed by screwing bolts 6 inserted in circular-shaped bolt inserting holes 51 formed in the connecting plate 5 to the bolt hole 41 in the end plate 4 of the pile 3 on one side, and the end plate 2 of the other pile 1 and the connecting plate 5 are fixed, in the state where the head 71 of the bolts 7 screwed to the end plate 2 of the pile 1 on the other side is inserted in the large diameter portion 52d of heteromorphic bolt insertion holes 52 communicating between a large diameter portion 52d which the head 71 of the bolts 7 formed on the connecting plate can pass through and a small diameter portion 52c which the head 71 of the bolts 7 cannot pass through, by making the other pile 1 and the connecting plate 5 move relatively so that the bolts 7 may shift from the large diameter portion 52d of the heteromorphic bolt insertion holes 52 to the small diameter portion 52c.



## FIG. 2 (B)





## **EUROPEAN SEARCH REPORT**

Application Number EP 03 25 0907

Category	Citation of document with indicat of relevant passages	ion, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
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				TECHNICAL FIELDS
				SEARCHED (Int.CI.7)
				E02D
	The present search report has been	drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
	Munich	28 September 200	28 September 2005 Ge	
C	ATEGORY OF CITED DOCUMENTS	T : theory or principle	underlying the	invention
X : part	icularly relevant if taken alone	E : earlier patent doc after the filing date	ument, but publi e	ished on, or
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### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 03 25 0907

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