? (유명) 등 입니다 경우(대 전략) 중앙이라, 제공단점을 하나 하는데 다른데 등은 인공부하는 다르지 않는데 중에 다른 다른데 는데 는데 이미나 이 아버지 않는데 생각하는데 다른데 다른데 다른데 다른데 되었다. US005378100A

United States Patent [19] Patent Number: [11] Fullerion

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5,378,100

(54)	MITHOD AND APPARATUS FOR RAPIDLY
	ENGAGING AND DISENGAGING
	THREADED COUPLING MEMBERS

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(21)	Anni	No.	47,199
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						1923P	11/02

				MU VELAM
[52]	U.S. Cl.	************************	411/267:	411/270:
4			411/433;	
			441/437;	471 J&J. L

[58] Field of Search 411/266, 267, 270, 433; 29/325.1

[56] References Cited

U.S. PATENT DOCUMENTS

2,021,051	11/1935	Desbrueres .
2,896,496	7/1959	Jansen .
3,157,215	11/1964	Zahodiakin
3,352,341	11/1967	Schertz 411/270
3,693,139	10/1972	Howe .
3,879,332	3/1975	Eaton
4,172,606	10/1979	Howe
4,378,187	3/1983	Fullerton 411/267

		Childers	
5,118,237	6/1992	Wright	411/433

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[57] ABSTRACT

A coupling device including a first member provided with external threads and a second member having an opening therein into which the first member is inserted. The second member is provided with a plurality of movably mounted internally threaded elements for receiving the external threads of the first member. A structure is provided whereby the first member may be inserted within the second member by rectilinear sliding movement, afterwhich the first member is rotated into tight engagement with the second member. Release of the first member is accomplished by rotating the first member very slightly in the opposite direction, afterwhich simple manual manipulation of the second member withdraws the threaded elements from engagement permitting the first member to be slidably removed from the second member.

9 Claims, 5 Drawing Sheets

