



US005850928A

United States Patent [19]

[11] Patent Number: **5,850,928**

Kahlman et al.

[45] Date of Patent: **Dec. 22, 1998**

[54] ARRANGEMENT FOR A VERTICAL AND HORIZONTAL GOODS HOIST

[56] References Cited

[76] Inventors: **Sture Kahlman; Johan Olsson**, both of Bengtsfors, Sweden

[21] Appl. No.: **312,118**

[22] Filed: **Sep. 26, 1994**

U.S. PATENT DOCUMENTS

2,940,608	6/1960	Underwood et al.	212/162
3,084,805	4/1963	McKinnon	212/159
4,291,213	9/1981	Felland et al.	200/6 A
4,520,894	6/1985	Hensler	200/6 A
4,723,458	2/1988	Blok	200/6 A

FOREIGN PATENT DOCUMENTS

20593	1/1961	Germany	212/216
2918010	11/1980	Germany	212/138

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 781,155, Oct. 31, 1991, Pat. No. 5,350,075.

[30] Foreign Application Priority Data

May 2, 1989	[SE]	Sweden	8901579
Jan. 2, 1990	[SE]	Sweden	9000003

[51] Int. Cl.⁶ **B66C 13/12**

[52] U.S. Cl. **212/285**; 212/315; 212/289; 212/312

[58] Field of Search 414/281-284; 212/284, 290, 312-317, 320-323, 225, 328, 344, 346; 254/270, 279, 323, 362, 380; 200/5 R, 6 A

Primary Examiner—David A. Bucci
Assistant Examiner—R. B. Johnson
Attorney, Agent, or Firm—Dvorak & Orum

[57] ABSTRACT

Arrangement for a goods hoist which has an operating control capable of being actuated by a driving device and is situated between a load device and the driving device. The driving device is controlled by electronics that communicate with a transmitter contained in an operating controller.

1 Claim, 12 Drawing Sheets

