

Title (en)  
Hoisting frame for a container.

Title (de)  
Heberahmen für einen Container.

Title (fr)  
Cadre de levage pour un conteneur.

Publication  
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Application  
**EP 89202583 A 19891012**

Priority  
NL 8802509 A 19881012

Abstract (en)  
For hoisting containers so-called spreaders are used. In such a spreader, according to the invention, instead of a framework construction and a chain for driving the beams, a closed box construction (5) is used, provided with a lengthwise middle wall (17). For driving the beams (6, 7) an endless toothed belt (18) drivably engaging drive spindles (22, 23) are mounted in the box construction (5). This makes the spreader considerably lighter in weight and cheaper to produce. Further an extensible cable channel (25) is provided having the form of a flexible ladder channel (24, 25).

IPC 1-7  
**B66C 1/10**

IPC 8 full level  
**B66C 1/10** (2006.01)

CPC (source: EP)  
**B66C 1/101** (2013.01)

Citation (search report)  
• [X] DE 2119479 A1 19711111 - RUBERY OWENS & CO LTD  
• [X] DE 1951636 A1 19710422 - JUENKERATHER MASCHBAU GMBH  
• [A] US 3734324 A 19730522 - LYNCH P, et al  
• [A] DE 1531132 A1 19691211 - KRUPP GMBH  
• [A] DE 2044437 A1 19710304  
• [A] US 3514146 A 19700526 - ZWEIFEL CHARLES H, et al  
• [A] FR 2169796 A1 19730914 - LIDHULTS MEKANISKA VERKS [SE]  
• [A] DE 1506506 A1 19690724 - DEMAG ZUG GMBH

Cited by  
CN110255400A; US7152895B1; US6588814B2; US7665784B2; DE10140449A1; DE10140449B4; DE10101986A1; DE10101986B4; US6502879B1; US8651790B2; US7753637B2; US7708514B2; WO0071458A1; US7850412B2; US7909558B2; WO2009095114A1; WO2023207011A1

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