

Title (en)

APPARATUS AND METHOD FOR CONTROLLABLY POSITIONING FORKS OF A MATERIAL HANDLING VEHICLE

Publication

EP 0456769 A4 19920506 (EN)

Application

EP 90907623 A 19900220

Priority

- US 9000821 W 19900220
- US 44521489 A 19891204

Abstract (en)

[origin: WO9108164A1] An apparatus (180) controllably moves the forks (30, 32) of a material handling vehicle (2) in traverse directions relative to a carriage assembly (12). The carriage assembly (12) includes fork position sensors (81, 83) which detects the transverse location of each fork (30, 32). A controller (178) receives signals from the position sensors (81, 83) and moves the forks (30, 32) to locations a preselected or calculated distance apart. Forktip sensors (102, 104) detect the opening (188) in a load (186) during movement of the forks (30, 32). The controller (178) receives signals from the forktip sensors (102, 104) and positions the forks (30, 32) such that they are disposable within the load opening (188). The apparatus (180) is especially suitable for use on an Automatic Guided Vehicle (AGV) (4).

IPC 1-7

B66F 9/10

IPC 8 full level

B66F 9/06 (2006.01); **B66F 9/075** (2006.01); **B66F 9/14** (2006.01)

CPC (source: EP)

B66F 9/063 (2013.01); **B66F 9/0755** (2013.01); **B66F 9/144** (2013.01)

Citation (search report)

- [Y] WO 8200997 A1 19820401 - TOWMOTOR CORP [US], et al
- [Y] EP 0335196 A1 19891004 - CATERPILLAR IND INC [US]
- See references of WO 9108164A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 9108164 A1 19910613; AU 5640490 A 19910626; DE 69028093 D1 19960919; DE 69028093 T2 19970320; EP 0456769 A1 19911121; EP 0456769 A4 19920506; EP 0456769 B1 19960814

DOCDB simple family (application)

US 9000821 W 19900220; AU 5640490 A 19900220; DE 69028093 T 19900220; EP 90907623 A 19900220