

Title (en)
MECHANISM FOR DUMPING A CONTAINER INTO A REFUSE COLLECTION VEHICLE

Publication
EP 0092134 A3 19850522 (EN)

Application
EP 83103498 A 19830411

Priority
US 36852982 A 19820415

Abstract (en)
[origin: EP0092134A2] A dumping mechanism including a support frame having a vertical leg and a horizontal leg extending from the upper end of the vertical leg. A container lift arm is supported from the horizontal leg of the frame by means of a link member. A container gripping means movable between a gripping position and a release position is mounted on one end of the lift arm. A guide track member is pivotally connected at its upper end to the horizontal leg of the frame and is engaged with a roller on the lift arm to guide the movement of the lift arm. A power lift cylinder is pivotally connected at its upper end to the horizontal leg of the frame and is pivotally connected at its lower end to the end of the lift arm opposite from that upon which the gripping means is mounted. The power cylinder when energized will move the lift arm between a position for gripping a container when in a standing position and a position wherein the container is inverted for dumping its contents into a refuse vehicle. A power track cylinder is pivotally connected at one end to the vertical leg of the support frame and pivotally connected at its other end to the guide track member. The power track cylinder when energized will move the lift arm so that the end thereof on which the gripping means is mounted will move laterally in a direction substantially horizontal to the surface upon which the container is standing.

IPC 1-7
B65F 3/04

IPC 8 full level
B65F 3/04 (2006.01); **B65F 5/00** (2006.01); **B65G 65/23** (2006.01); **B65F 3/02** (2006.01)

CPC (source: EP)
B65F 3/048 (2013.01); **B65F 2003/023** (2013.01)

Citation (search report)
• [A] DE 2920898 A1 19801204 - HUTSCH WERNER, et al
• [AD] FR 2415589 A1 19790824 - WORTHINGTON WAYNE [US]
• [A] US 4281956 A 19810804 - PICKRELL JOHN W
• [A] US 3148793 A 19640915 - WALTER ROBERT J

Cited by
GB2222813A; EP0230663A3; EP0715595A4; CN111498348A; EP0433517A1; GB2220470A; GB2220470B; CN114435978A; US7004514B2

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
EP 0092134 A2 19831026; EP 0092134 A3 19850522; EP 0092134 B1 19880720; AU 1320483 A 19831020; AU 611626 B2 19910620; CA 1201689 A 19860311; DE 3377412 D1 19880825; JP H0462962 B2 19921008; JP S58197101 A 19831116; ZA 832546 B 19831228

DOCDB simple family (application)
EP 83103498 A 19830411; AU 1320483 A 19830406; CA 425949 A 19830415; DE 3377412 T 19830411; JP 6682083 A 19830415; ZA 832546 A 19830412