

Title (en)

Refuse vehicle with a lifting and dumping device for unloading refuse containers into a receiving chute.

Title (de)

Müllsammelfahrzeug mit einer Hubkippvorrichtung zur Aufnahme und zum Entleeren von Müllbehältern in eine Einschüttöffnung.

Title (fr)

Véhicule de ramassage d'ordures équipé d'un dispositif pour soulever et renverser des poubelles dans une ouverture de réception.

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Application

EP 92100773 A 19920117

Priority

DE 4102064 A 19910124

Abstract (en)

[origin: EP0496302A1] The invention relates to a refuse vehicle (1) with a lifting and dumping device for picking up and emptying refuse containers into a receiving chute of a collecting receptacle, said lifting and dumping device consisting of at least one lift arm (2), connected to the refuse vehicle so as to be pivotable, and of at least one fork having a receiving claw (36) connected in articulated fashion to said lift arm, said fork being pivotable by means of pressure-medium actuated piston-cylinder units (6, 7) with associated control means. In order to achieve the object of providing a refuse vehicle of this kind in which it is ensured that refuse containers to which it is attached by means of its lifting and dumping device can be emptied in such a manner that said refuse containers are tipped only when above the receiving chute to such an extent that the refuse falls out of their openings, the lift arm (2) and the receiving claw (36) are provided with phase-angle sensors, which generate signals corresponding to the respective pivot angle between the lift arm and the refuse vehicle and the receiving claw and the lift arm. These signals are fed to a computer which controls the control valves of the pressure-medium actuated piston-cylinder units according to choice in such a manner that the latter carry a refuse container attached to the receiving claw or the like essentially horizontally over a predetermined part of the lift path and pivot said refuse container only in the final range of the lift path for emptying into the receiving chute. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

B65F 3/04 (2013.01); **B65F 2003/0279** (2013.01)

Citation (examination)

US 3827587 A 19740806 - LIBERMAN H, et al

Cited by

US6123497A; EP0728685A1; ITP120090139A1; US5741107A; CN107472752A; US5474413A; EP0720957A1; US6158945A; US6059511A; CN108978553A; EP2305578A1; FR2950871A1; US7729831B2; US9845191B2; WO2018053581A1; WO2004052756A1; EP2305578B1

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