

Title (en)
LOADING SYSTEM FOR REFUSE COLLECTION VEHICLE

Title (de)
LADESYSTEM FÜR MÜLLFAHRZEUG

Title (fr)
SYSTÈME DE CHARGEMENT POUR VÉHICULE DE COLLECTE DE DÉCHETS

Publication
EP 3351490 B1 20220824 (EN)

Application
EP 18152276 A 20180118

Priority
GB 201700869 A 20170118

Abstract (en)
[origin: EP3351490A1] A loading system (100) for a rear-loading refuse collection vehicle (110) having a first collection silo (120) and a second collection silo (130) arranged within a 50:50 split body vehicle, the first collection silo and the second collection silo having openings at the rear of the vehicle through which refuse may be introduced into the vehicle collection silos, the system being configured to enable a discharge of waste from an 1100-litre refuse container into each of the first collection silo and the second collection silo, the width of the 1100 litre refuse container being greater than the width of either the openings of the first collection silo or the second collection silo, the system comprising: a frame (200) mountable to the rear of the vehicle, the frame comprising a frame chassis (210) which is fixable to the vehicle and a movable frame element (220) comprising a high-level lifting mechanism (140A, 140B), wherein the movable frame element is operably movable on the frame chassis in a direction transverse to a longitudinal axis and side-to-side relative to the rear of the refuse collection vehicle to align the lifting mechanism with a respective one of the first collection silo and the second collection silo, the lifting mechanism being moveable relative to the frame chassis in a direction up-and-down relative to the rear of the refuse collection vehicle and configured to effect a lifting of a refuse container and a dumping of the contents of the refuse container into a respective one of the first collection silo or the second collection silo of the refuse collection vehicle; a divider (170) movable to selectively direct refuse dumped into the vehicle into either the first collection silo or the second collection silo of the refuse collection vehicle; an actuating mechanism (900) configured to effect movement of each of the movable frame element and the divider, wherein the actuating mechanism is configured to effect a first loading configuration wherein the divider has a first orientation relative to a first location of the movable frame element relative to the frame chassis to effect a loading of the first collection silo of the refuse collection vehicle and a second loading configuration wherein the divider has a second orientation relative to a second location of the moveable frame element of the frame chassis to effect a loading of the second collection silo of the refuse collection vehicle, wherein the actuating mechanism is configured to effect concurrent movement of each of the divider and the movable frame element to adopt the first loading configuration or the second loading configuration and wherein movement of the divider to adopt each of the first orientation and the second orientation is operably opposite in direction to movement of the movable frame to adopt each of the first location and the second location respectively.

IPC 8 full level
B65F 3/00 (2006.01); **B65F 3/04** (2006.01)

CPC (source: EP GB)
B65F 3/001 (2013.01 - EP GB); **B65F 3/0213** (2013.01 - GB); **B65F 3/04** (2013.01 - EP); **B65F 2003/0253** (2013.01 - EP); **B65F 2003/0269** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3351490 A1 20180725; EP 3351490 B1 20220824; ES 2929300 T3 20221128; GB 201700869 D0 20170301; GB 2558903 A 20180725; GB 2558903 B 20190828; IE S20180016 A2 20180516; IE S86897 B2 20180516

DOCDB simple family (application)
EP 18152276 A 20180118; ES 18152276 T 20180118; GB 201700869 A 20170118; IE S20180016 A 20180118