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(54) Title: **LOADING SYSTEM FOR LIFTING AND EMPTYING A BIN, COLLECTION VEHICLE PROVIDED THEREWITH
AND METHOD THEREFOR**

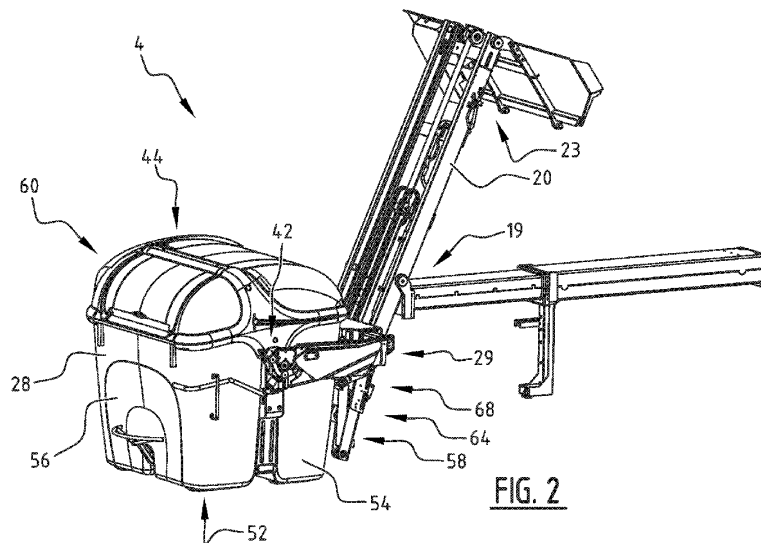


FIG. 2

(57) Abstract: The invention relates to a loading system (4) for lifting and emptying a bin (28) in a collector (8). A collection vehicle (2) provided therewith and method therefor. The loading system (4) according to the invention comprises: - a loading frame (19) mountable on the collector (8) with coupling means (23); - a lifting mechanism (29) arranged on the frame (19) and configured to pick up, lift and empty the bin (28), wherein the lifting mechanism (29) is provided with two lifting arms (24, 26) for picking up the bin (28); - a lifting drive system (51) connected operatively to the lifting mechanism (29) and configured to drive the lifting mechanism; - a lid engaging mechanism (62) configured to engage on a lid (60) of the bin (28); and - a blocking mechanism (64) connected operatively to the lid engaging mechanism (62) and configured to prevent over-rotation of the bin (28) during emptying, wherein the blocking mechanism (64) is provided with a blocking element (74) which is configured to engage on the bin (28).

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