

PATENT NO. 396866

A MULTIPURPOSE UTILITY VEHICLE FOR LOADING AND OFFLOADING MATERIALS SUCH AS LITTER, BUILDING MATERIAL AND THE LIKE

APPLICATION NO. 201631021116

APPLICANT

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The present invention is directed to a multipurpose utility vehicle for loading and offloading materials such as litter, building material and the like having a wheel supported and movable materials carrier structure with a releasably closable base thereof and a scrapper activating member/connecting rod having a scrapper at one end, operatively connected to a rotary driven shaft/crank shaft at the other end whereby due to the rotation of the driven shaft the scrapper activating member traces a to and fro or reciprocating motion through a supporting cylinder such that the scrapper end of the scrapper activating member thus traces an egg shaped /elliptical working motion to scrap litter from ground level. The vehicle has a hinged closure member at its scrapper end which can be selectively laid down at inclined position to cooperate with said scrapper as a substance/litter collecting tray and close the scrapper feed end after completing collection. The releasably closable base of said material carrier structure favour release of the collected litter at dumping site.

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CLAIM 1

A multipurpose utility vehicle for loading and offloading materials such as litter, building materials and the like comprising:

a wheel supported and movable materials carrier structure having a releasably closable base thereof;

a scrapper activating member/connecting rod having a scrapper at one end and operatively connected to a rotary driven shaft/crank shaft at the other end whereby rotation of the driven shaft induces the scrapper activating member to a to and fro or reciprocating motion through a supporting cylinder;

said carrier structure having along its edge adjacent said scrapper end of said scrapper activating member a hinged side closure member which can be selectively laid down along its hinged connection to said carrier structure to cooperate with said scrapper as a materials collecting tray for lifting the scrapped materials onto said litter carrier and upon finishing of the scrapping action being lifted to close the scrapper feed end of the materials carrier structure scrapped materials collection facilitating tray which can be selectively laid down to define an angular materials collecting tray;

said supporting cylinder adapted to generate a degree of motion in relation to said reciprocating to and fro motion of said scrapper activating member such that the scrapper end of the scrapper activating member thus traces an egg shaped /elliptical working motion

to scrap materials from ground level along said laid down side closure and onto said carrier structure and on finish of the scrapping and litter collection lifting of said side closure to close the feed end of the materials carrier structure;

said releasably closable base of said materials carrier structure adapted to be opened in litter dumping site for release of the collected materials.