The present invention relates to a new drive for the buckets for road building materials and the like, such as those used more particularly for surfacing shoulders or pavements or road edges, and the movement of which required hitherto an independent drive motor or a tractor.

According to the present invention, this drive function is transferred to the vehicle supplying the material, and consists in fitting to the supplying vehicle a pivoted coupling linkage with which there are associated on the bucket one or more coupling boxes, enabling the bucket to be coupled with the vehicle supplying the material and enabling the bucket to be moved in the operating direction by the supplying vehicle.

If the vehicle used to supply the bucket with material is, for instance, a side dump truck, the coupling linkage is conveniently so articulately connected with the loading surface that, when the side wall of the supplying vehicle is lowered, the actual coupling rod engages into the coupling box.

In order to allow for an adjustment of the width of the surface, especially in the case of shoulders, in a preferred embodiment of the invention, one side wall of the bucket is laterally displaceable.

The invention will be further described, by way of example, with reference to the accompanying drawing, in which:

FIGURE 1 is a longitudinal cross-section of a bucket according to the invention; and

FIG. 2 is a rear elevation partly in cross section of a material supply vehicle in the coupled condition.

The bucket 1 has inwardly inclined end walls 2 and may be moved by means of wheel assemblies 3 on guide rails. An adjustment in height of the wheel assemblies or of the bucket 1 is possible by means of screw spindles 4. The bucket contains usually bulkheads which are not shown in detail. The bucket may also be equipped with a drawer 5. The end walls of the bucket 1 carry U-shaped coupling boxes or brackets 6 which may be adjusted in height by means of rows of holes 7.

FIG. 2 shows the material supply vehicle 8, in this case a side dump truck. A coupling linkage is anchored on the loading platform 9 of the truck and has a coupling rod 10 which may be swivelled outwardly. The anchoring is effected by a rod 11, located along the loading platform and anchored to the same.

If during the charging of the bucket with material, the side wall 12 is lowered, the coupling rod 10 may engage into the coupling box 6. In this way, both vehicles, are coupled together so that the bucket is entrained by the supply vehicle, enabling it to fulfill its function. In this coupled condition it is also possible to place the side dump truck into its maximum tipping position during the transport thereof.

In order to adjust the width of the surface, especially with verges, one wall 13 of the bucket is laterally displaceable; to this end, the end walls have parallel rows of holes 14, enabling the side wall to be laterally displaced and fixed. The usual boarding is shown at 15, carrying the guide rails for the wheel assemblies of the bucket. The road surfacing is shown at 16. For transporting the bucket to and from the site, there may be provided lateral wheel assemblies 17, shown by broken lines.

The invention has the advantage that the movement of the bucket does not require any special tractor or independent drive, and because an uninterrupted collaboration with the buckets is made possible, provided that these are not so large that they can receive the full load of the side dump truck at once. In this manner operation with these buckets are more continuous and less time-wasting.

What I claim is:

1. A distributor bucket system for road building material supplied from a side dump truck, comprising a material receiver having end walls, a coupling bracket secured to each end wall, a coupling rod pivotally mounted on the truck and adapted to be coupled to the brackets, and wheel means to roll the bucket along the road whereby due to the rods coupled to the brackets the dump truck and the material receiver may be moved together as a unit.

2. A distributor bucket system according to claim 1, in which a side wall is provided for the dump truck and is pivotally mounted on the truck so that when lowered adjacent the receiver the rods will automatically fall into the brackets of the bucket.

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