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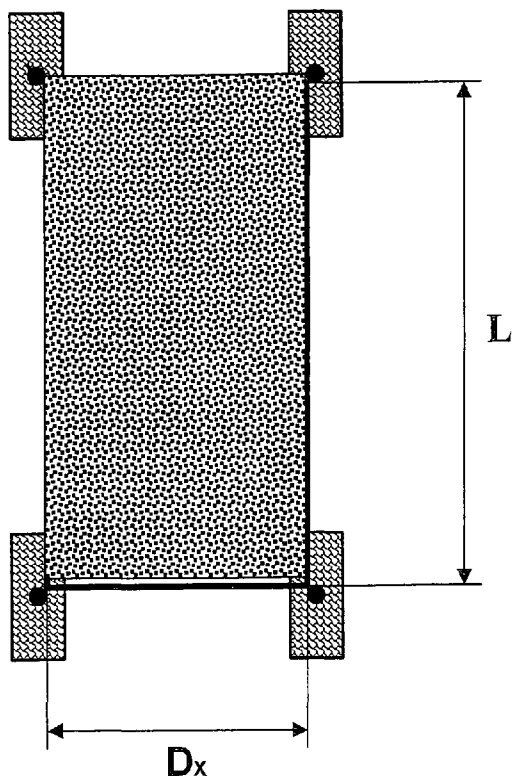
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(54) Title: IMPROVED CONCRETE PAVEMENT SLABS FOR STREETS, ROADS OR HIGHWAYS AND THE METHODOLOGY FOR THE SLAB DESIGN



(57) Abstract: The traditional paving systems employed until now, consider the width of pavement slabs equal to a lane width and the long dimension equal to the lane width or 6 meters long. These dimensions make that the vehicles loads, and especially loaded truck, apply the loads at both edges simultaneously, inducing tensile stresses on the slabs surfaces when they are warped. The current invention proposes to build a concrete slab where the maximum width value of slab D_x is being given by the lower measure between the distance D_1 of the front wheels of a model loading truck or by de mean, and the distance D_2 of a rear running gear of the same truck or the mean; the maximum slab length L is given by the distance between the truck axles or the mean; and the thickness E is given by the concrete resistance value, considering traffic loads, the kind and quality of the base, and the ground type. The current invention comprises the design methodology of this concrete slab, which allows that always only one wheel or only one running gear of the truck, used as model truck or mean, touch and moves over the slab.



Declaration under Rule 4.17:

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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