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## Patent Search

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### Abstract:

UTILIZING 100% COAL ASH IN SUB BASE PAVEMENT FOR SUSTAINABLE DEVELOPMENT The present invention provides a novel and sustainable approach to pavement construction by utilizing 100% coal ash as a sub-base material. This method not only addresses the disposal issues associated with coal ash but also offers significant environmental and economic benefits by reducing the need for natural aggregates and minimizing the carbon footprint of pavement construction projects. The use of coal ash can provide pavements with improved durability, load-bearing capacity, and resistance to erosion, contributing to sustainable development in the field of civil infrastructure.

Complete Specification

Description:4. DESCRIPTION

## Technical Field of the invention

The present invention relates to the field of civil engineering, particularly to the use of coal ash as a material for sub-base pavement construction. The invention provides the utilization of 100% coal ash as a substitute for traditional sub-base materials, such as crushed stone or gravel, in the construction of pavements. More specifically, the invention provides a method for enhancing the sustainability and performance of pavements through the use of coal ash, a byproduct of coal combustion, in sub-base layers.

## Background of the invention

The construction of pavements and roadways involves the use of various materials for sub-bases, which provide structural support for the surface layers. Traditionally, crushed stone, gravel, and other aggregate materials are used for this purpose. However, these materials are often extracted from natural sources, contributing to environmental degradation, increased carbon emissions, and resource depletion. Additionally, the growing volume of coal ash generated from power plants poses challenges, as it can lead to land and water contamination when improperly handled.

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