

Title (en)

A SUSTAINABLE TWO-COMPONENT ANNULAR GROUT COMPOSITION AND METHOD FOR GROUTING A TUNNEL ANNULUS

Title (de)

NACHHALTIGE ZWEIKOMPONENTIGE RINGFÖRMIGE VERGUSSMÖRTELZUSAMMENSETZUNG UND VERFAHREN ZUM VERGUSS EINES TUNNELRINGS

Title (fr)

COMPOSITION DE COULIS DE CIMENT À DEUX COMPOSANTS DURABLE POUR ESPACE ANNULAIRE ET PROCÉDÉ DE CIMENTATION D'UN ESPACE ANNULAIRE DE TUNNEL

Publication

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Application

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Abstract (en)

[origin: WO2022182934A1] A method and composition are provided for backfilling the annular gap created as a tunnel boring machine advances through the ground. The fill material is comprised of two components that are combined and mixed together just prior to entering the annular gap. The first component is non-cement slurry consisting of a fluidized bed combustion ash such as coal ash. The second component consists of an alkali silicate such as sodium silicate. Additionally, ordinary Portland cement and/or metakaolin can be added to the grout composition.

IPC 8 full level

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CPC (source: EP)

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C-Set (source: EP)

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