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**(54) Title (EN):** COMPOSITION OF CEMENT-POLYMERS COMPOSITE MIXTURE, PROCESS FOR OBTAINING THIS COMPOSITION, PROCESS FOR APPLICATION THE COMPOSITION OF CEMENT-POLYMERS COMPOSITE MIXTURE AND USES OF THE COMPOSITION OF CEMENT-POLYMERS COMPOSITE MIXTURE

**(54) Title (FR):** COMPOSITION DE MÉLANGE COMPOSITE CIMENT-POLYMÈRES, PROCÉDÉ D'OBTENTION DE CETTE COMPOSITION, PROCÉDÉ D'APPLICATION DE LA COMPOSITION DE MÉLANGE COMPOSITE CIMENT-POLYMÈRES ET UTILISATIONS DE CELLE-CI

**(57) Abstract:**

**(EN):** The invention relates to a composition of cement-polymer composite mixture to a process of developing and implementing a process of composition and the composition uses cement-polymer composites for construction of road infrastructure.

Composition and process for obtaining it, and the application process according to the invention lead to the development of roads with enhanced solutions from existing knowledge and benefits consisting of: lack of expansion joints, the tread color from white - gray - gray to black, the road roughness can be controlled in the casting phase, which is adapted to the degree of slope and the necessary adhesion, the composition does not disintegrate in the environment, produces no emissions of particulate, gas and other toxic substances are even organic, not fuel Composition applied on the roads is a real barrier in wooded areas of the alpine areas of fire risk (fire caused by lightning or negligence); price represents 60% of estimated requirements for the construction of a section with recipes traditional asphalt or concrete road with lifetime of the building at 5 to 10 to 40 years depending on weather conditions.

**(FR):** L'invention porte sur une composition de mélange composite ciment-polymères, sur un procédé de développement et de mise en œuvre d'un procédé d'obtention de la composition et sur les utilisations de la composition de composites de ciment-polymères pour la construction d'infrastructures routières. La composition et le procédé permettant de l'obtenir, ainsi que le procédé d'application selon l'invention conduisent au développement de routes avec des solutions améliorées à partir de connaissances

existantes et d'avantages qui comprennent : la suppression de joints de dilatation, la couleur de la surface de roulement de blanc-gris-gris à noir, la rugosité de la route qui peut être régulée dans la phase de coulée, qui est adaptée à la pente et à l'adhérence requise, la composition qui ne se désagrège pas dans l'environnement, qui ne produit pas d'émissions de matière particulaire, de gaz et autres substances toxiques et qui est même biologique, le fait qu'il n'y a pas de composition de combustible appliquée sur les routes ce qui constitue une barrière réelle dans les zones boisées des zones alpines exposées au risque d'incendie (incendie provoqué par la foudre ou la négligence); le prix qui représente 60 % des besoins estimés pour la construction d'une section avec des recettes de route en asphalte ou en béton traditionnel présentant une durée de vie de la construction de 5 à 10 à 40 ans en fonction des conditions météorologiques.

### **International search report:**

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European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

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Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

### **Declarations:**

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America