

Title (en)  
Method for renovating roadways.

Title (de)  
Verfahren zur Erneuerung von Fahrbahnen.

Title (fr)  
Procédé de rénovation des chaussées.

Publication  
**EP 0158560 A1 19851016 (FR)**

Application  
**EP 85400578 A 19850326**

Priority  
FR 8405071 A 19840330

Abstract (en)  
1. A process for renovating roadways generally comprising a foundation layer, a base course and a pavement, according to which the old roadway is regenerated by a treatment which comprises removal of the existing roadway, collection and screening of the material removed, and addition of new materials which are mixed with the screened material and which are compensating aggregates and stabilising substances in the form of a binder and water, characterized in that the removal of the existing roadway is carried out throughout its full thickness so as to obtain blocks with a maximum dimension of 700 mm for thick products and of 1 000 mm for flat products, the material removed is crushed so as to obtained a crushed product with a granulometry of 0 to 40 mm, and the above-mentioned successive phases of the treatment, removal, collection, crushing, addition of new materials, are carried out in situ by a train of mobile machines which move along the roadway as the treatment progresses, the train of machines also performing the subsequent phases, namely spreading and levelling, along the ground, as the old roadway is removed, a single layer of regenerated material replacing the old foundation layers and base course and containing all materials so recycled from the old roadway and the addition of new materials, packing this single layer, after fine adjustment of the evenness of its surface transversely, and conventional finishing consisting in laying a pavement.

Abstract (fr)  
On retraite et régénère dans toute son épaisseur l'ancienne chaussée par un traitement in situ, qui comprend les phases suivantes réalisées par un train de machines mobiles: 1. dislocation de la chaussée existante sur toute son épaisseur, 2. ramassage et concassage du matériau disloqué, 3. apport de granulats correcteurs, 4. stabilisation du matériau concassé, par malaxage avec apport de liant et d'eau, 5. étalement et nivelage sur le sol, au fur et à mesure de l'enlèvement de la chaussée ancienne, d'une couche unique du matériau régénéré remplaçant les anciennes couches de fondation et de base et contenant tous les matériaux ainsi recyclés de l'ancienne chaussée et un apport de matériaux nouveaux, 6. compactage de couche unique, après réglage fin de la planéité de sa surface dans le sens transversal, 7. finition classique consistant à déposer une couche de roulement. Application notamment à la réfection des routes nationales et départementales.

IPC 1-7  
**E01C 23/06**; **E01C 3/00**; **E01C 3/04**

IPC 8 full level  
**E01C 3/00** (2006.01); **E01C 3/04** (2006.01); **E01C 23/06** (2006.01)

CPC (source: EP)  
**E01C 3/003** (2013.01); **E01C 3/04** (2013.01); **E01C 23/065** (2013.01)

Citation (search report)  
• [AD] US 3732023 A 19730508 - RANK C, et al  
• [A] WEGEN, vol. 55, no. 1, janvier 1981, page 782-34, Boskoop, NL; H.J. HALM: "Hergebruik"  
• [A] WEGEN, vol. 55, no. 7, juillet 1981, pages 788-205 - 788-211, Boskoop, NL; CH. F. HENDRIKS: "Hergebruik van wegverhardingsmateriaal in Nederland"

Cited by  
EP0521993A4; FR3051202A1; EP0597176A1; AU666543B2; US5741085A; GB2443191B; US8021076B2; WO2017194873A1; WO2008025343A3

Designated contracting state (EPC)  
AT BE DE GB IT

DOCDB simple family (publication)  
**EP 0158560 A1 19851016**; **EP 0158560 B1 19870610**; AT E27719 T1 19870615; DE 3560242 D1 19870716; FR 2562109 A1 19851004; FR 2562109 B1 19860926

DOCDB simple family (application)  
**EP 85400578 A 19850326**; AT 85400578 T 19850326; DE 3560242 T 19850326; FR 8405071 A 19840330