

Title (en)  
Method of reinforcing arches or similar constructions.

Title (de)  
Verfahren zum Verstärken von Gewölben oder ähnlichen Konstruktionen.

Title (fr)  
Procédé pour conforter des arches ou des constructions analogues.

Publication  
**EP 0089861 A1 19830928 (FR)**

Application  
**EP 83400387 A 19830225**

Priority  
FR 8204825 A 19820322

Abstract (en)  
1. Process for strengthening an arch (1) comprising the operations consisting in prefabricating a relatively thin vault (2), for example of reinforced concrete, with a profile adapted to that of the arch (1) to be strengthened, in placing it under the intrados of the arch (1), in supporting it therein temporarily or permanently, and in then inserting between the extrados of the prefabricated vault (2) and the intrados of the arch, a suitable filling (5), temporary or permanent, suitable for transmitting the forces of the arch (1) to the prefabricated vault (2), characterized in that the filling (5) inserted between the vault (2) and the arch (1) contains means specially intended to facilitate the relative movements of the vault and of the arch in a direction tangential thereto.

Abstract (fr)  
L'invention concerne un procédé pour conforter une arche. Une voûte mince, (2), par exemple en béton armé, est supportée par des organes (3, 3a ou 3b), en dessous de l'arche à conforter, (1), de façon à maintenir entre elles un intervalle annulaire étroit, (5), qui est comblé avec un remplissage, temporaire ou définitif, choisi pour assurer la transmission d'efforts sans empêcher les déplacements relatifs de 1 et 2. L'invention est applicable au confortement d'arches, d'arcades, de voûtes diverses.

IPC 1-7  
**E01D 21/00**; **E04G 23/02**

IPC 8 full level  
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CPC (source: EP)  
**E01D 22/00** (2013.01); **E04G 23/0218** (2013.01); **E04G 23/0233** (2013.01)

Citation (search report)  
• [A] DE 555819 C 19320728 - OTTO KNOER  
• [A] FR 1557434 A 19690214  
• [A] FR 2126661 A5 19721006 - COMMERCIAL SHEARING STAM  
• [A] FR 2126369 A1 19721006 - HOESCH AG, et al  
• [A] FR 2336543 A1 19770722 - TEKKEN CONSTR CO [JP]

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CN109281257A; RU169131U1; CN112342942A; RU2471943C2; RU171760U1; EP0567659A1; RU169130U1; RU2689009C1; CZ305270B6; RU171928U1; CN112411743A; FR2751013A1; CN103758048A; CZ306367B6; RU2640612C2; CN106088646A; CN107905551A; CN107916796A; CN107916797A; CN107989397A; CN107989398A; CN108360835A

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