

Title (en)
REINFORCING MASONRY STRUCTURES

Title (de)
VERSTÄRKUNG VON MAUERWERKSTRUKTUREN

Title (fr)
REINFORCEMENT DE STRUCTURES DE MAÇONNERIE

Publication
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Application
EP 96928516 A 19960819

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Abstract (en)
[origin: WO9707289A1] Masonry arches are reinforced by forming substantially horizontal grooves (10) in the masonry above the arch (1), forming substantially vertical grooves (11) in the masonry at each side of and/or above the arch (1), and embedding a reinforcing rod (10', 11') or bar in a grouting composition in each groove. Bridges are also reinforced by forming grooves (15, 16) longitudinally and transversely in the intrados, and embedding a reinforcing rod or bar in each longitudinal groove and in each transverse groove in a grouting composition. The transverse rods or bars (16') reinforcing the intrados may be laid against a first layer of longitudinal rods or bars (15'), and a second layer of longitudinal rods or bars (15'') are laid against the transverse rods (16'').

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Citation (search report)
See references of WO 9707289A1

Citation (third parties)
Third party :
• GB 2302896 B 19971105 - EDSCER WILLIAM GEORGE [GB]
• S.GARRITY: "Strengthening Masonry Structures with Retro-Reinforcement", IABSE SYMPOSIUM, 1995, SAN FRANCISCO, pages 1399 - 1404
• S.W.GARRITY: "TESTING OF SMALL SCALE MASONRY ARCH BRIDGES WITH SURFACE REINFORCEMENT", 1995, ENGINEERING TECHNICS PRESS, EDINBURGH, ISBN: 0-9476-4415-1
• S.W.GARRITY: "Retro-Reinforcement of Existing Masonry Structures", 10TH IB-2-MAC, 5 July 1994 (1994-07-05), CALGARY, CANADA, pages 469 - 478

Cited by
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