

Title (en)

REINFORCING MASONRY STRUCTURES

Title (de)

VERSTÄRKUNG VON MAUERWERKSTRUKTUREN

Title (fr)

REINFORCEMENT DE STRUCTURES DE MAONNERIE

Publication

EP 0845063 A1 19980603 (EN)

Application

EP 96928516 A 19960819

Priority

- GB 9602026 W 19960819
- GB 9516995 A 19950818
- GB 9608069 A 19960418

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").

IPC 1-7

E01D 22/00

IPC 8 full level

E01D 22/00 (2006.01)

CPC (source: EP)

E01D 22/00 (2013.01); **E04G 23/0233** (2013.01)

Citation (search report)

See references of WO 9707289A1

Citation (third parties)

Third party :

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- 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 TECHNIKS 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

CN109972537A; CN107841933A

Designated contracting state (EPC)

AT BE DE DK ES FR GB IE IT NL

DOCDB simple family (publication)

WO 9707289 A1 19970227; AT E219543 T1 20020715; DE 69621937 D1 20020725; DE 69621937 T2 20030220; EP 0845063 A1 19980603; EP 0845063 B1 20020619

DOCDB simple family (application)

GB 9602026 W 19960819; AT 96928516 T 19960819; DE 69621937 T 19960819; EP 96928516 A 19960819