

Title (en)

Method for the restoration of beams for giving them a higher resistance.

Title (de)

Verfahren zur Restaurierung von Trägern und zur Erhöhung ihrer Festigkeit.

Title (fr)

Procédé de restauration de poutres permettant une augmentation de leur résistance.

Publication

EP 0141782 A2 19850515 (FR)

Application

EP 84810503 A 19841015

Priority

CH 575283 A 19831024

Abstract (en)

1. Process for the restoration of wooden beams, employing reinforcing rods, epoxy resin and epoxy mortar, during which reinforcing rods are positioned longitudinally of the beam and other reinforcing rods are disposed substantially perpendicularly of the first rods, the various reinforcing rods being positioned in seatings previously drilled in the beam and made fast with the wood by injection or pouring of resin or epoxy mortar into the interior of the seatings, characterised in that at least one metallic reinforcing rod (3, 9) is positioned in the length direction of the beam and in that glass fibre rods (15, 16) are disposed in seatings drilled beforehand in the beam, the glass fibre rods being so positioned that at least one of their ends is free and in the vicinity of the metal rod (3, 9) and in that then, by injection or pouring, the metal rod (3, 9) and the ends of the glass fibre rods (15, 16) are coated in a mortar mass (6, 10, 12), the body of each of the glass fibre rods, in its seating, being made fast with the beam by the epoxy resin.

Abstract (fr)

Procédé de restauration de poutres anciennes permettant une augmentation substantielle de la résistance à la charge dont la caractéristique principale est l'utilisation de barres métalliques (3 et 9) et de barres de fibres de verre (16) noyées dans une masse de mortier d'époxy de sorte que les différentes zones comblées par le mortier soient à la fois armées et d'un seul tenant.

IPC 1-7

E04G 23/02

IPC 8 full level

E04G 23/02 (2006.01)

CPC (source: EP)

E04G 23/0218 (2013.01); **E04G 2023/0248** (2013.01); **E04G 2023/0251** (2013.01)

Cited by

FR2871089A1; FR2585393A1; EP2376724A4; GB2299828A; GB2299828B; EP1045091A1; FR2792355A1; EP0462597A1; DE3828476A1; DE3828476C2; US10151119B2; US11674322B2; US9783991B2; US9982444B2; US10450763B2; US10022825B2; US10280636B2; US10731333B2; US11053676B2; US11499308B2; US11512483B2; US11761220B2; US9790681B2; US9879436B2; US10662661B2; US11512484B2; US9784005B2; US11180915B2; US11821204B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0141782 A2 19850515; **EP 0141782 A3 19850703**; **EP 0141782 B1 19870909**; AT E29547 T1 19870915; CH 654060 A5 19860131; DE 3466031 D1 19871015

DOCDB simple family (application)

EP 84810503 A 19841015; AT 84810503 T 19841015; CH 575283 A 19831024; DE 3466031 T 19841015