

Title (en)  
Wall reinforcement.

Title (de)  
Mauerverstärkung.

Title (fr)  
Renforcement de murs.

Publication  
**EP 0494099 A2 19920708 (EN)**

Application  
**EP 92200823 A 19850729**

Priority  
GB 8419523 A 19840731

Abstract (en)  
Method of reinforcing a wall using a structural tie in the form of a length of wire (15) of corrosion resistant material, comprising a core and two externally projecting fins (4). Each fin follows a continuous helical path about the axis of the core and the tie has a substantially uniform cross-section. The diameter of the core is 2 to 6mm and the maximum diameter of the entire tie is 10mm. The tie is located in an opening formed in the mortar layer of the wall and grouted in position. <IMAGE>

IPC 1-7  
**E04B 1/41**; **E04B 2/30**; **E04C 5/03**; **E04G 23/02**

IPC 8 full level  
**E04B 1/41** (2006.01); **E04B 1/76** (2006.01); **E04B 2/20** (2006.01); **E04B 2/30** (2006.01); **E04C 5/01** (2006.01); **E04C 5/03** (2006.01); **E04G 23/02** (2006.01)

CPC (source: EP)  
**E04B 1/41** (2013.01); **E04B 1/4178** (2013.01); **E04B 1/4185** (2013.01); **E04B 1/7616** (2013.01); **E04B 2/20** (2013.01); **E04B 2/30** (2013.01); **E04C 5/01** (2013.01); **E04C 5/012** (2013.01); **E04C 5/03** (2013.01); **E04G 23/0218** (2013.01); **E04G 23/0222** (2013.01)

Citation (applicant)  
• EP 0171250 A2 19860212 - OLLIS WILLIAM JOHN BERNARD [GB], et al  
• GB 1233175 A 19710526  
• EP 0171250 A2 19860212 - OLLIS WILLIAM JOHN BERNARD [GB], et al

Cited by  
ITPG20100045A1; EP1710372A3; CZ298844B6; GB2270535A; GB2270535B; GB2288842A; GB2288842B; EP0811736A1; EP2562318A1; CN103814180A; GB2501131A; GB2501131B; US7866116B2; WO2006117513A1; WO2013026641A1; WO9507400A1

Designated contracting state (EPC)  
BE DE FR GB IT NL

DOCDB simple family (publication)  
**EP 0494099 A2 19920708**; **EP 0494099 A3 19921216**; **EP 0494099 B1 19950705**; DE 3586701 D1 19921105; DE 3586701 T2 19930422; DE 3588038 D1 19950810; DE 3588038 T2 19960411; EP 0171250 A2 19860212; EP 0171250 A3 19880224; EP 0171250 B1 19920930; EP 0494723 A2 19920715; EP 0494723 A3 19921216; GB 8419523 D0 19840905

DOCDB simple family (application)  
**EP 92200823 A 19850729**; DE 3586701 T 19850729; DE 3588038 T 19850729; EP 85305405 A 19850729; EP 92200822 A 19850729; GB 8419523 A 19840731