

**EUROPEAN PATENT APPLICATION**

Application number: 85890018.6

Int. Cl.<sup>3</sup>: E 04 C 5/06

Date of filing: 24.01.85

Priority: 24.01.84 FI 840279

Date of publication of application:  
21.08.85 Bulletin 85/34

Date of deferred publication of search report: 30.03.88

Designated Contracting States:  
AT BE CH DE FR GB IT LI NL SE

Applicant: RAKENNUSVALMISTE OY  
SF-30420 Forssa 42(FI)

Inventor: Kankkunen, Heikki Ilmari  
Turuntie 25 as 65  
SF-30100 Forssa 20(FI)

Representative: Wolfram, Gustav, Dipl.-Ing.  
Schwindgasse 7 P.O. Box 205  
A-1041 Wien(AT)

**Spiral reinforcement structure for precast concrete elements and method for manufacturing a combined reinforcement mesh.**

Described herein are a spiral reinforcement structure for concrete elements (1), such as concrete beams or columns, comprising a continuous metal wire or bar (4-7) bent into a number of spirally arranged consecutive windings (4, 5 and 6) with a spacing in the longitudinal direction of the structure, and a method for manufacturing a combined reinforcement mesh (2-7).

According to the structure, the planes of the windings (4, 5 and 6) are substantially perpendicular to the longitudinal direction of the structure, and progress in said longitudinal direction from one winding (4, 5) to the next (6) takes place within a limited distance (7) of each winding at the same side of the structure. The method comprises inserting structures (4-7) of the above kind laterally inside each other from a side at least partially opposite said side where the limited distance (7, ) is situated and fastening the structures with one another.

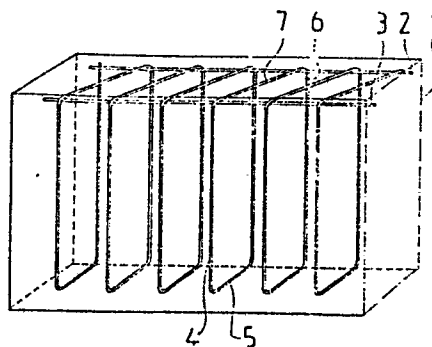


Fig.1



European Patent  
Office

# EUROPEAN SEARCH REPORT

**0152397**  
Application Number

EP 85 89 0018

| DOCUMENTS CONSIDERED TO BE RELEVANT  |   |  |   |
|--|---|--|---|
| Category   | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim                              | CLASSIFICATION OF THE APPLICATION (Int. Cl.3) |
| P,Y  | EP-A-0 132 254 (BEST)<br>* claim 5; figure 12 *<br>---                        | 1  | E 04 C 5/06                                   |
| Y  | DE-A-2 805 984 (SCHNABEL)<br>* claim 1; figure 3 *<br>---                     | 1  |   |
| A  | US-A-3 798 864 (GEORGII)<br>* complete document *<br>-----                    | 1  |   |
|  |   |  | TECHNICAL FIELDS SEARCHED (Int. Cl.3)         |
|  |   |  | E 04 C 5/00                                   |
| The present search report has been drawn up for all claims   |   |  |   |
| Place of search<br>BERLIN  |   | Date of completion of the search<br>30-11-1987 | Examiner<br>KLITSCH                           |
| <b>CATEGORY OF CITED DOCUMENTS</b><br>X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document<br>T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>.....<br>& : member of the same patent family, corresponding document |   |  |   |