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(71) Applicant: Dongyang Construction Co., Ltd.
Seoul 137-070 (KR)

(72) Inventors:
• Kim, Won-keun
Dobong-gu,
Seoul, 132-023 (KR)
• Kim, Moon-pal
Hongeun-dong
Seodaemun-gu,
Seoul 120-100 (KR)

- Shin, Hyun-kee
Yangcheon-gu,
Seoul 158-050 (KR)
- Park, Seoung-kyoo
Kyungju-si,
Kyungsangbuk-do 780-130 (KR)
- Kim, Tae-hyoung
Kuro-gu,
Seoul 152-054 (KR)
- Son, Young-ho
Yeongju-si,
Kyungsangbuk-do 750-053 (KR)

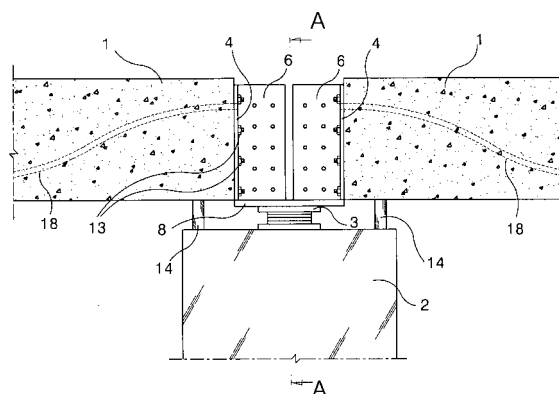
(74) Representative: LOUIS, PÖHLAU, LOHRENTZ
P.O. BOX 30 55
90014 Nürnberg (DE)

(54) Structure and method of connecting I-Type prestressed concrete beams using steel brackets

(57) A structure and method of connecting a plurality of PSC-I beams (PSC-I beams) to each other using steel brackets. The beam connecting structure, each having a sheath pipe therein, includes an end plate which is mounted on each of both ends of each of the PSC-I beams, with a through hole provided on an upper portion of the end plate to correspond to the sheath pipe embedded in each of the PSC-I beams; a steel bracket integrally which is provided on the end plate to be perpendicular to the end plate; a bracket coupling plate to integrally couple the aligned steel brackets to each other; a bottom connecting plate which is provided on lower ends of the aligned steel brackets to connect the steel brackets to each other; a connecting sheath pipe which is provided between the PSC-I beams so that both ends of the connecting sheath pipe are respectively inserted into the through holes of the neighboring end plates of the PSC-I beams while the PSC-I beams are arranged linearly; a prestress strand which is inserted in the sheath pipes of the PSC-I beams and the connecting sheath pipe; and a concrete part which is filled in a space between the PSC-I beams to embed the aligned steel brackets, the bracket

coupling plate and the connecting sheath pipe in the concrete part.

Fig.4A





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EUROPEAN SEARCH REPORT

Application Number
EP 04 01 2158

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 10 January 2006	Examiner Dijkstra, G
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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