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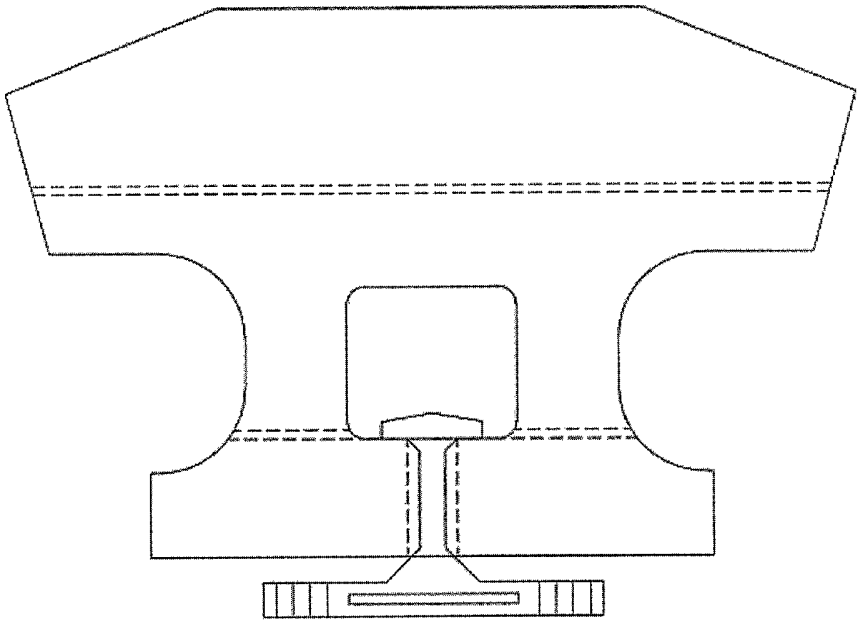
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) **Title:** THE BLOCK FOR A REVETMENT STRUCTURE



(57) **Abstract:** The present invention relates to block (10) for a revetment structure which is used by road construction, wing bridge construction, and bank construction in common for an ensuring of road cutting and slope stabilization, that is consist of an inserting groove means (50) which is formed by fixed size on a center of a rear side (30) of the block (10), a reinforced pin connector means (70) which is fixed on the block (10) by a projecting part (40) which is switched from a direction of verticality to a direction of horizontality in the inserting groove means (50), and the reinforced pin connector means (70) to includes both side of reinforced ring part (60) and the inserted projecting part (40) in the inserting groove means (50).

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The block for a revetment structure

Technical Field

The present invention relates to the block (10) for a revetment structure which is used by road construction, wing bridge construction, and bank construction in common for an ensuring of road cutting and slope stabilization, the block for a revetment structure is consist of an inserting groove means (50) which is formed by fixed size on a center of a rear side (30) of the block (10), a reinforced pin connector means (70) which is fixed on the block (10) by a projecting part (40) which is switched from a direction of verticality to a direction of horizontality in the inserting groove means (50), and the reinforced pin connector means (70) includes both side of reinforced ring part (60) and the inserted projecting part (40) in the inserting groove means (50).

Background Art

The present invention relates to the block (10) for a revetment structure which is used by road construction, wing bridge construction, and bank construction in common for an ensuring of road cutting and slope stabilization, that connects to a grid including a reinforced pin connector to the block (10).

Disclosure of Invention

Technical Problem

Generally, in case of reinforced soil revetment, the economical efficiency fell off because the grid was the high price greatly and was limited of structural backfill materials and bulging by the use of extensible reinforcement.

Moreover, in case of using passive resistance and reinforcing rod, the

erosion and fault construction of passive resistance using concrete could be happened that if the block combined with reinforcing rod of inextensible reinforcement, all of the block for a revetment structure could be changed because displacement only occurs when the input acceleration exceeds the passive resistance.

In addition, in case of reinforced revetment to connect to grid with a projection of revetment, could be happened a defect in revetment because the grid was inserted between the blocks. Also, another defect was to bring a loss of the grid as the length of the revetment block.

Technical Solution

Accordingly, the present invention provides the block for a revetment structure. It is an object of the present invention to overcome the above problems encountered in the conventional art.

For achievement for the above problems, to optimize faults of revetment to connect by horizontally in the rear (30) of the block (10) using reinforced pin connector means (70), applying for this in construction field, various reinforcement (synthetics, uniaxial extension, rigid pipe, rigid pipe, reinforcing rod, mesh, wale geo-textiles, and so on), able to do construct simultaneously with lock-bolt and soil nailing at the same time, and can save the grid as the length of revetment block (10) relatively traditional revetment block.

Advantageous Effects

As mentioned above, the effectiveness of the present invention is for optimizing for fault of revetment to connect in the rear (30) of the block (10) by reinforced pin connector means (70).

Also, it is possible to connect to various reinforcements (synthetics, uniaxial extension, rigid pipe, reinforcing rod, mesh, wale geo-textiles, and so on), able to do construct simultaneously with lock-bolt and soil nailing at the same time, and can save the grid as the length of revetment block (10) relatively traditional revetment block.

Brief Description of the Drawings

The present invention will become better understand with reference to accompanying drawings which are given only by way of illustration and thus are not limitative of the present invention, wherein;

Figure 1 is a perspective view illustrating of the block for a revetment structure according to the present of invention.

Figure 2 is a perspective view illustrating of the reinforced pin connector of the block for a revetment structure according to the present invention.

Figure 3 is a perspective view illustrating of inserting pin connector of the block for a revetment structure according to the present invention.

Best Mode for Carrying Out the Invention

The present invention relates to a block (10) for a revetment structure which is used by road construction, wing bridge construction, and bank construction in common for an ensuring of road cutting and slope stabilization, the block for a revetment structure is consist of an inserting groove means (50) which is formed by fixed size on a center of a rear side (30) of the block (10), a reinforced pin connector means (70) which is fixed on the block (10) by a

projecting part (40) which is switched from a direction of verticality to a direction of horizontality in the inserting groove means (50), and the reinforced pin connector means (70) includes both side of reinforced ring part (60) and the inserted projecting part (40) in the inserting groove means (50), and the reinforced pin connector means (70) is more including a reinforced fixing part (80) to fix a reinforcement in the center of the block (10).

Mode for the Invention

The preferred embodiments of the present invention will be described with reference to the accompanying drawings.

Figure 1 is a perspective view illustrating of the block (10) for the block for a revetment structure according to the present of invention, and Figure 2 is a perspective view illustrating of the reinforced pin connector of the block (10) for a revetment structure according to the present invention.

The block (10) for a revetment structure is consist of an inserting groove means (50) which is formed by fixed size in a center of the rear (30) of the block (10) for a revetment structure, and a reinforced pin connector means (70) for locking up to the block (10) for a revetment structure by a projecting part (40) which is switched from a direction of verticality to a direction of horizontality in the inserting groove means (50), and both side of reinforced connection ring part (60).

Figure 3 is a perspective view illustrating of inserting pin connector of the block (10) for a revetment structure according to the present invention. The block (10) for a revetment structure is consist of an inserting groove means (50) in which is after the projecting part (40) by fixed size in a center of the rear (30)

of the revetment block (10) is inserting into the direction of verticality, the direction of verticality is switched to a direction of horizontality, and a reinforced pin connector means (70) in which is connecting to the block (10) and grid through both reinforced ring part (60) after inserting the reinforced pin connector (70) into the inserting groove means (50).

The reinforced pin connector means (70) is more including a reinforced fixing part (80) to fix the reinforcement in the center of the block (10).

The present invention is not limited to the above embodiment. As the present invention may be embodied in several forms without departing from the spirit or essential characteristics thereof, it should also be understood that the above-described examples are limited by any of the details of the foregoing description, unless otherwise specified, but rather should be constructed broadly within its spirit and scope as defined in the appended claims, and therefore all changes and modifications that fall within the meets and bounds of the claims, or equivalences of such meets and bounds are therefore intended to be embraced by the appended claims.

Claims:

1. A block (10) for a revetment structure which is used by road construction, wing bridge construction, and bank construction in common for an ensuring of road cutting and slope stabilization, comprising:

an inserting groove means (50) which is formed by fixed size on a center of a rear side (30) of the block (10);

a reinforced pin connector means (70) which is fixed on the block (10) by a projecting part (40) which is switched from a direction of verticality to a direction of horizontality in the inserting groove means (50); and

the reinforced pin connector means (70) includes both side of reinforced ring part (60) and the inserted projecting part (40) in the inserting groove means (50).

2. The revetment block (10) of claim 1, wherein said reinforced pin connector means (70) includes a reinforced fixing part (80) to fix a reinforcement in a center of the block (10).

FIG. 1

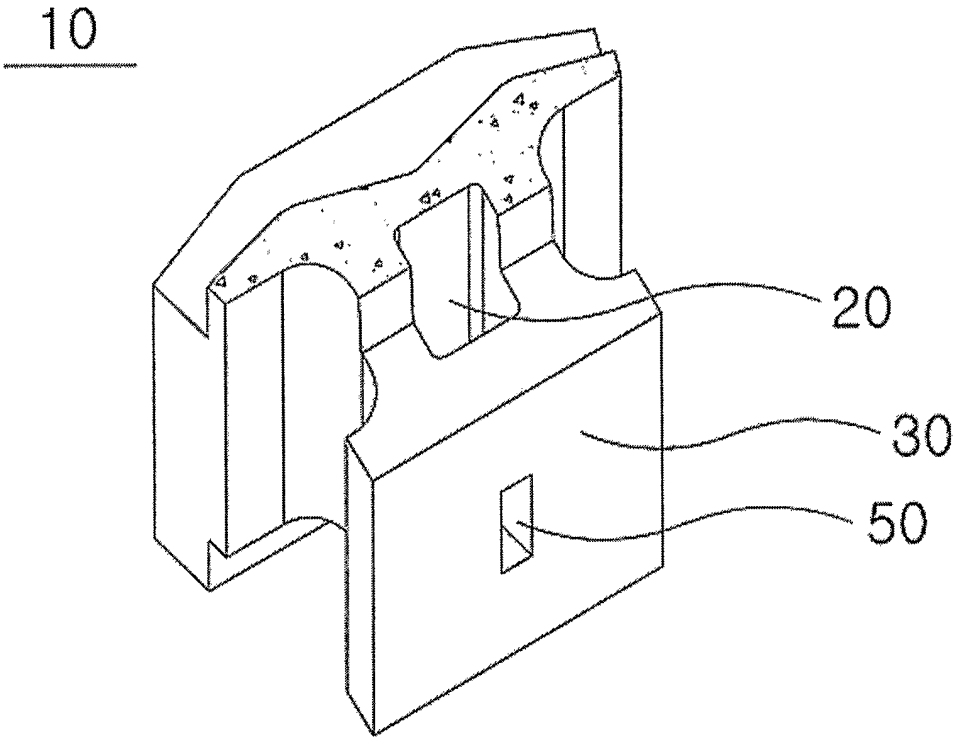


FIG.2

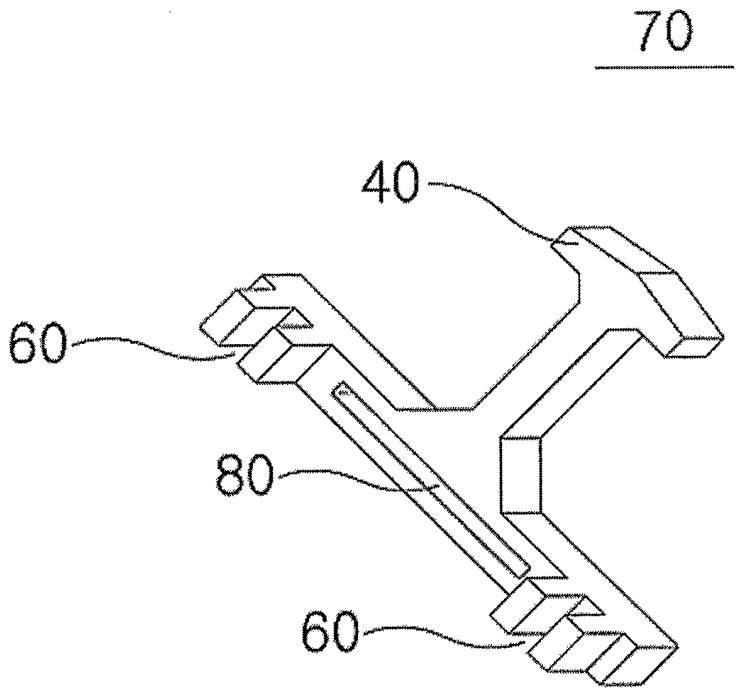
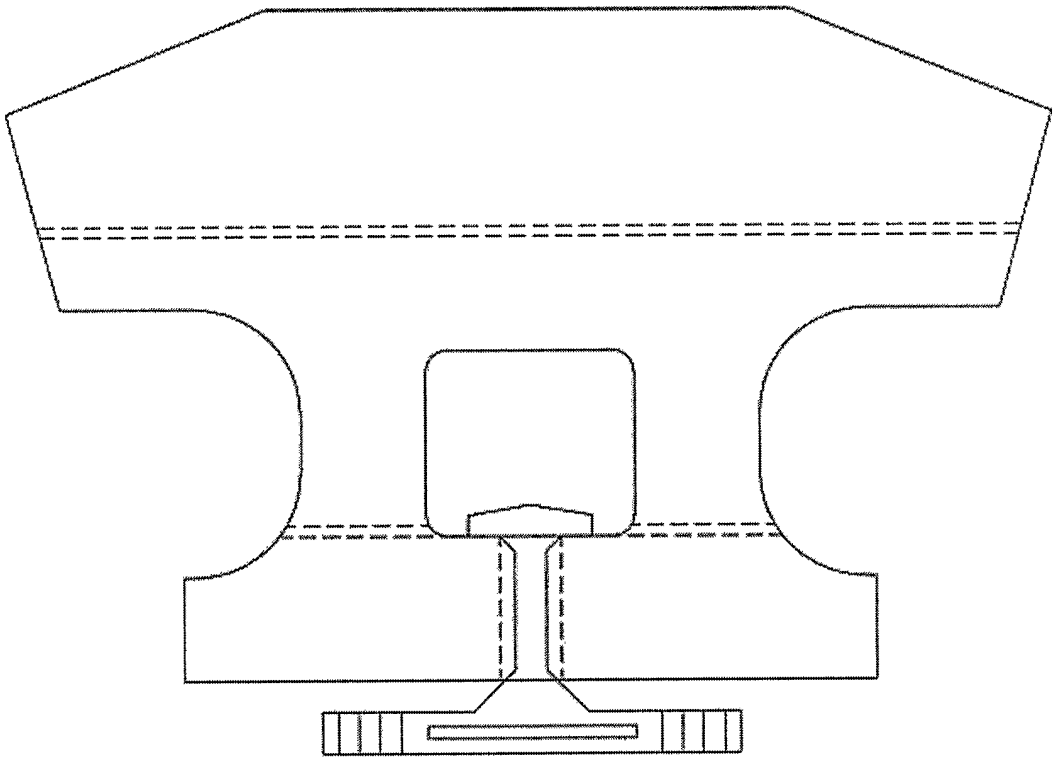


FIG. 3



INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/003400

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 E02D 29/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 E02D, E04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

KR, JP as above

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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