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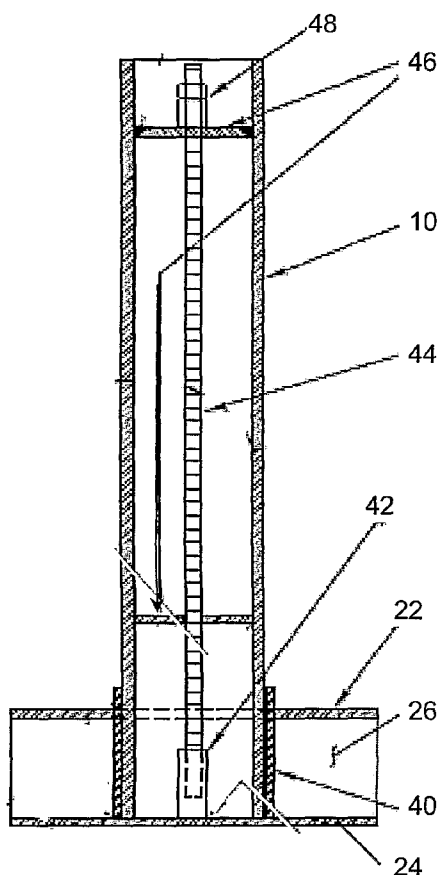
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(54) Title: REMOVABLE BOLLARD SYSTEM AND METHOD OF INSTALLATION



(57) Abstract: An anti-ram removable bollard (10) assembly and an installation of the same to arrest impacts are provided. The removable bollard assembly comprises a base assembly (20) and at least a reinforcement member (32a,32b) to be fixedly installed on site, and a removable bollard member to be detachably secured to the base assembly as and when required. A coupling mechanism (42,44,48) may be provided in the base assembly to engage the removable bollard member. Also, the base assembly may include an I-beam cross-section arrangement (22,24,26) to provide increased strength to the base assembly. Several base assemblies may be connected by rebars (104) to form a cohesive installation which restrains movement when any bollard member in the installation is struck. With the cohesive arrangement, a high impact rating may be achieved even with shallow base assemblies.

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