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Greenfield et al.

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(54) **EXPLOSIVE DEVICE NEUTRALIZATION SYSTEM**

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(57) **ABSTRACT**

An explosive device neutralization system includes a penetrating tip, a reaction stake, and a deployment mechanism. The reaction stake includes a reaction initiation material (R.I.M.) which is configured to burn, thereby dispersing burning R.I.M. beyond the reaction stake. The deployment mechanism and penetrating tip are configured to deliver a portion of the reaction stake adjacent to a bulk charge of the explosive device, such that the burning R.I.M. is dispersed to the bulk charge. The reaction stake includes a stake housing that encloses the R.I.M. proximate an egress hole in the stake housing. The reaction stake also includes an ignition system proximate the deployment mechanism. Upon activation of the deployment mechanism, the ignition system initiates burning of the R.I.M. The deployment mechanism can include a deployment charge that is connected to a detonator. Further, the detonator can include a detonating cord that extends a sufficient distance away from the neutralization system and/or explosive device to avoid harm to an operator of the neutralization system.

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(58) Field of Search 89.1.13; 102-402; 86:50

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22 Claims, 8 Drawing Sheets

