Title (en)

METHOD FOR DETECTING AND/OR NEUTRALIZING LAND MINES LAID ON THE SURFACE OR CAMOUFLAGED, AND MOBILE SYSTEM FOR REALIZING THIS METHOD

Publication

EP 0305556 B1 19910508 (DE)

Application

EP 87112603 A 19870829

Priority

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Abstract (en)

[origin: EP0305556A1] The method allows the detection and/or neutralisation of land mines laid on the surface or camouflaged by the use of a laser beam, in which land mines present on a mined surface are detected by means of the laser beam without being destroyed by detonation, the mine explosive being brought to spontaneous combustion, without detonation, in response to an appropriately long action or predetermined dwell time of the laser beam on the individual mines. The absorption and/or emission and/or reflectance spectra formed by the jet flame and/or gas flame generated as a result of the thermal reaction of the mine explosive are picked up and detected, and the spectra obtained are evaluated, to ascertain the type of explosive used in the particular mine detected, by comparative measurements of stored spectra of known mine explosives for the purpose of leaving the detected mine in the monitored minefield or for the purpose of a detonative destruction of the mine, following the spectral analysis of the emission of the mine explosive stimulated by laser beam, by means of the laser beam of the laser apparatus used. <IMAGE>

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F41H 11/12; F41H 11/16

IPC 8 full level

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CPC (source: EP)

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Cited by

FR2765960A1; FR2797043A1; DE102008023229B4; DE102015000871A1; US6868768B1; US6487950B2; EP1443319A1; US7752953B2; US9448042B2; FR2857087A1; EP1983296A3; CN107246824A; DE102005060172B3; FR2852387A1; US6609451B1; US6679153B2; DE19638375A1; DE9103089U1; WO2006103655A3; DE102008023229A1; EP2123602A1

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