

Title (en)  
DEFECT IDENTIFICATION IN BODIES CONSISTING OF BRITTLE MATERIAL

Title (de)  
FEHLERERKENNUNG IN KÖRPERN AUS SPRÖDEN MATERIALIEN

Title (fr)  
DETECTION DE DEFAULTS DANS DES CORPS EN MATERIAUX FRAGILES

Publication  
**EP 1412737 A1 20040428 (DE)**

Application  
**EP 02754343 A 20020710**

Priority  
• DE 0202529 W 20020710  
• DE 10133510 A 20010710

Abstract (en)  
[origin: DE10133510C1] The invention relates to a non-linear method, which permits a simple, rapid and precise defect identification in a body consisting of brittle materials. According to said method, the body is subjected (1a, 2b) to acoustic vibrations of different intensities in at least two temporally staggered operations (A, B), a vibration response of the body is recorded (2a, 2b) in the time range, the vibration response is normed (3a, 3b), the start of the vibration is determined (4a, 4b) and a section of the vibration response is determined (5a, 5b), the start of said section forming the previously determined start of the vibration and said section having a specific length. A correlation coefficient of the sections of the respective vibration responses of the two or more operations constitutes (6) a characteristic value for the defect identification.

IPC 1-7  
**G01N 29/04**

IPC 8 full level  
**G01N 29/12** (2006.01); **G01N 29/30** (2006.01); **G01N 29/38** (2006.01); **G01N 29/50** (2006.01)

CPC (source: EP US)  
**G01N 29/12** (2013.01 - EP US); **G01N 29/30** (2013.01 - EP US); **G01N 29/38** (2013.01 - EP US); **G01N 29/50** (2013.01 - EP US);  
**G01N 2291/0232** (2013.01 - EP US)

Citation (search report)  
See references of WO 03006983A1

Designated contracting state (EPC)  
AT CH DE ES FR GB LI

DOCDB simple family (publication)  
**DE 10133510 C1 20021128**; EP 1412737 A1 20040428; US 2003167845 A1 20030911; WO 03006983 A1 20030123

DOCDB simple family (application)  
**DE 10133510 A 20010710**; DE 0202529 W 20020710; EP 02754343 A 20020710; US 36391703 A 20030430