

Title (en)
Protective helmet with gas measuring device

Title (de)
Schutzhelm mit Gasmessgerät

Title (fr)
Casque de protection doté d'un appareil de mesure de gaz

Publication
EP 2138060 A2 20091230 (DE)

Application
EP 09163707 A 20090625

Priority
DE 102008030790 A 20080628

Abstract (en)
The helmet (15) has an outer shell (16) or an inner lining (17) supporting a sensor module (5) to be directed towards an area of helmet user's mouth or nose. A display module (6) of a gas-measuring device comprises a projection unit (12) for outputting a projected display of measured or status data onto a projection surface. An LED module (11) is provided on underside of the helmet, where the LED module is provided for displaying an alarm or warning state. An alarm generator module (7) of the gas-measuring device comprises an acoustic alarm generator or a vibration alarm. An independent claim is also included for a user safety process for a helmet.

Abstract (de)
Ein Schutzhelm soll derart verbessert werden, dass eine Schadgasüberwachung im Sichtbereich des Helmträgers ermöglicht ist. Zur Lösung der Aufgabe ist ein modularartig aufgebautes Gasmessgerät am Schutzhelm (15) vorgesehen, bei welchem ein Sensormodul (5) im Gesichtsbereich des Helmträgers positioniert ist.

IPC 8 full level
A42B 3/04 (2006.01)

CPC (source: EP US)
A42B 3/046 (2013.01 - EP US)

Citation (applicant)
• CH 438755 A 19670630 - SCHUBERTH WERK KG [DE]
• US 5659296 A 19970819 - DEBE MARK K [US], et al
• US 2006125623 A1 20060615 - APPELT DAREN R [US], et al
• US 2002190866 A1 20021219 - RICHARDSON GRANT STUART [GB]

Cited by
US11915570B2; US11931689B2; DE102021110198A1; US11864616B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
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