

Title (en)  
Warning device for helmets.

Title (de)  
Warnvorrichtung für Helme.

Title (fr)  
Dispositif avertisseur pour casque.

Publication  
**EP 0285938 A1 19881012 (EN)**

Application  
**EP 88104901 A 19880326**

Priority  
IT 4158087 A 19870410

Abstract (en)  
Warning device for crash-helmets comprising an electric circuit entirely accommodated in any known crash-helmet. The circuit is constituted by power supply means (2) connected to acoustic and/or luminous warning devices (6) and to two switches (7,11). One (7) of said switches is normally open and accommodated within the helmet shell and one (11) is normally closed and is located within a fastening (12,13) for the chin strap (14).

IPC 1-7  
**A42B 3/00**

IPC 8 full level  
**A42B 3/04** (2006.01); **A42B 3/08** (2006.01)

CPC (source: EP)  
**A42B 3/0466** (2013.01); **A42B 3/08** (2013.01)

Citation (search report)  
• [A] DE 3032371 A1 19820318 - DRAEGERWERK AG [DE]  
• [A] DE 8619141 U1 19860828  
• [A] DE 2619947 A1 19771110 - WELTIN OPTAC  
• [A] WO 8601379 A1 19860313 - EBERT GERD  
• [A] DE 8511154 U1 19850814  
• [A] FR 2212756 A5 19740726 - RAYMOND JEAN LOUIS [FR]  
• [A] DE 2603435 A1 19770804 - SZPERKOWSKI REINER G

Cited by  
CN106174836A; US5329637A; ITBG20100028A1; DE10234330A1; DE10234330B4; CN112203544A; IT202100005447A1; US11730221B2; WO2016110471A1; WO2011131812A1; WO2020145362A1; WO03073880A1; WO2020145361A1; WO2007083329A1; WO2021180995A1

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DE FR IT

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