

Title (en)
A helmet.

Title (de)
Helm.

Title (fr)
Casque.

Publication
EP 0423711 A1 19910424 (EN)

Application
EP 90119811 A 19901016

Priority
JP 27457189 A 19891020

Abstract (en)
A helmet (10) includes a shell (1) made of plastic, a shock absorber liner (2) made of foam plastic and provided on an inner surface of the shell, an inner cushion (3) provided on an inner surface of the shock absorber liner, and a thickness adjusting member (4) provided between the shock absorber liner (2) and the inner cushion (3), the thickness adjusting member (4) being in the form of an air bag. The air is supplied into the thickness adjusting member (4) so that the inner cushion (3) is projected inward to fit the helmet (10) on the user's head. Pump means (60) is provided for supplying the air in the thickness adjusting member (4). The pump means (60) can be actuated with the helmet (10) being put on.

IPC 1-7
A42B 3/12

IPC 8 full level
A42B 3/12 (2006.01)

CPC (source: EP)
A42B 3/122 (2013.01); **A42B 3/324** (2013.01)

Citation (search report)

- [X] DE 7518858 U 19761007
- [Y] DE 7729063 U1 19771229
- [X] US 4586200 A 19860506 - POON MELVYN C [US]
- [A] DE 7827449 U1 19781221
- [A] US 4134156 A 19790116 - GYORY KALMAN
- [A] US 3761959 A 19731002 - DUNNING F
- [A] US 3866243 A 19750218 - MORGAN GERARD E
- [AP] WO 9004932 A1 19900517 - BIANCHI VITTORIO [FR]

Cited by
CN113243604A; EP2543270A1; FR2888729A1; DE102013200760A1; US5937446A; US6446271B1; EP0564599A4; US5950244A; US6351853B1; EP1316264A3; WO2010092075A1; US8566969B2; US6530092B2; WO9301732A1; WO2007114720A1; WO2010082919A3

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