

Title (en)  
ROOF WINDOW COMPRISING POLYMER PROFILES WITH METAL REINFORCEMENT

Title (de)  
DACHFENSTER MIT POLYMERPROFILIEN MIT METALLVERSTÄRKUNG

Title (fr)  
FENÊTRE DE TOIT COMPRENANT DES PROFILÉS EN POLYMÈRE AVEC RENFORCEMENT MÉTALLIQUE

Publication  
**EP 4379160 A1 20240605 (EN)**

Application  
**EP 22210123 A 20221129**

Priority  
EP 22210123 A 20221129

Abstract (en)  
A roof window (1), is disclosed. The roof window comprises a frame (2) comprising structural, elongated frame profiles (2a, 2b, 2c) comprising side profiles (2a), atop profile (2b) and a bottom profile (2c), and an insulating glass unit (3) supported by the frame (2). One or more of the structural elongated frame profiles (2a, 2b, 2c) is a polymer frame profile (2a, 2b, 2c) comprising- polymer profile walls (4AB-4EA), which together shape and enclose one or more longitudinally extending interior profile spaces (5), and- metal reinforcement, which reinforces the polymer frame profile (2a, 2b, 2c). The metal reinforcement comprises a plurality of discrete metal bars (6), which extend in the longitudinal direction of the polymer frame profile and which are secured to one or more of the polymer profile walls (4AB-4EA). The total weight of metal reinforcement (6) per meter of the polymer frame profile (2a, 2b, 2c) may be less than 0.7 kg, such as less than 0.5 kg, such as less than 0.3 kg, per meter frame profile (2a, 2b, 2c).

IPC 8 full level  
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CPC (source: EP)  
**E04D 13/031** (2013.01); **E06B 3/221** (2013.01); **E06B 3/222** (2013.01); **E06B 2003/228** (2013.01)

Citation (applicant)  
• WO 2021080445 A1 20210429 - GLOGOWSKI HENRYK [PL], et al  
• US 6427415 B1 20020806 - ROSENKRANZ ERICH [DE]  
• WO 2008135048 A1 20081113 - VKR HOLDING AS [DK], et al  
• PL 232782 B1 20190731 - GLOGOWSKI HENRYK [PL], et al

Citation (search report)  
• [XDYI] US 6427415 B1 20020806 - ROSENKRANZ ERICH [DE]  
• [IY] WO 2021156313 A1 20210812 - VKR HOLDING AS [DK]  
• [YA] DE 19741788 A1 19980416 - PIP AG [CH]  
• [YA] DE 19933099 A1 20010118 - SCHUECO INT KG [DE]  
• [Y] EP 0010593 B2 19860326  
• [Y] WO 9822683 A1 19980528 - RASMUSSEN KANN IND AS [DK], et al  
• [E] EP 4155496 A1 20230329 - VKR HOLDING AS [DK]

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