

Title (en)  
Radiation shielding viewing window

Title (de)  
Strahlenschutzbeobachtungsfenster

Title (fr)  
Hublot de protection contre les rayonnements

Publication  
**EP 0859371 A1 19980819 (FR)**

Application  
**EP 98400305 A 19980211**

Priority  
FR 9701665 A 19970213

Abstract (en)  
A window which allows visual observation while protecting the observer against neutrons and high energy radiation such as X-rays and gamma rays comprises an assembly of transparent, radiation absorbing sheets (2-6) sealed into a frame (7) by a mass of pourable and settable material (14) such as concrete. Also claimed is assembling the window by locating sheets (2-6) in frame (7) with their optical axis vertical and pouring material (14) to fill the space between the sheets and frame.

Abstract (fr)  
L'invention concerne un hublot ou fenêtre de protection contre les rayonnements de cellules ou d'enceintes dans des installations nucléaires. Selon l'invention, le hublot est constitué d'au moins un bloc optique, conférant une protection contre les rayonnements à haute énergie et/ou neutroniques, et d'un cadre, l'espace entre le bloc optique et le cadre étant comblé par un matériau coulable et durcissable. <IMAGE>

IPC 1-7  
**G21F 7/03**

IPC 8 full level  
**G21F 7/03** (2006.01)

CPC (source: EP US)  
**G21F 7/03** (2013.01 - EP US)

Citation (search report)  
• [XAY] FR 1333746 A 19630802 - SAINT GOBAIN NUCLEAIRE  
• [YA] PATENT ABSTRACTS OF JAPAN vol. 014, no. 415 (P - 1102) 7 September 1990 (1990-09-07)

Cited by  
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**EP 0859371 A1 19980819; EP 0859371 B1 20011128**; AT E209822 T1 20011215; CA 2229695 A1 19980813; CA 2229695 C 20070529; DE 69802593 D1 20020110; DE 69802593 T2 20020801; DK 0859371 T3 20020402; ES 2167844 T3 20020516; FR 2759485 A1 19980814; FR 2759485 B1 19990312; JP 4307584 B2 20090805; JP H10325898 A 19981208; PT 859371 E 20020429; TW 396349 B 20000701; US 5937598 A 19990817

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