

Title (en)  
INSULATING GLAZING UNIT AND GLAZING

Title (de)  
ISOLIERVERGLASUNGSEINHEIT UND VERGLASUNG

Title (fr)  
UNITÉ DE VITRAGE ISOLANT ET VITRAGE

Publication  
**EP 4217577 A1 20230802 (DE)**

Application  
**EP 21773528 A 20210906**

Priority  
• EP 20197747 A 20200923  
• EP 2021074451 W 20210906

Abstract (en)  
[origin: WO2022063550A1] The invention relates to an insulating glazing unit (1) with RFID transponders (9) for operating with an RFID reading device at an operating frequency  $f_{READ}$ , comprising: - at least one spacer (5) which is formed peripherally so as to form a spacer frame (5') and which delimits an inner region (12), - a first glass pane (4a), which is arranged on a first pane contact surface (5.1) of the spacer frame (5'), and - a second glass pane (4b), which is arranged on a second pane contact surface (5.2) of the spacer frame (5'), wherein - the glass panes (4a, 4b) protrude beyond the spacer frame (5'), and an outer region (13) is formed which is at least partly, preferably completely, filled with a sealing element (6), - at least one RFID transponder (9) is arranged at least partly, preferably completely, within the sealing element (6), - the sealing element (6) has a relative permittivity  $\epsilon_r$  which is greater than or equal to 2, - the spacer (5) is at least partly electrically conductive, and - the RFID transponder (9) has an operating frequency  $f_{TRANS}$  of  $f_{READ} + 30 \text{ Mhz}$  to  $f_{READ} + 100 \text{ MHz}$ .

IPC 8 full level  
**E06B 3/66** (2006.01)

CPC (source: EP)  
**E06B 3/66** (2013.01)

Citation (search report)  
See references of WO 2022063550A1

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022063550 A1 20220331**; EP 4217577 A1 20230802

DOCDB simple family (application)  
**EP 2021074451 W 20210906**; EP 21773528 A 20210906