

Title (en)  
BUCKLE DEVICE

Title (de)  
SCHNALLENVORRICHTUNG

Title (fr)  
DISPOSITIF DE BOUCLE

Publication  
**EP 3973809 B1 20240124 (EN)**

Application  
**EP 20198817 A 20200928**

Priority  
EP 20198817 A 20200928

Abstract (en)  
[origin: EP3973809A1] A buckle device comprises a main body unit, a latch unit and a fastening unit. The main body unit includes a housing surrounding and defining an accommodating space, two first apertures provided in the housing, two slider blocks arranged in the accommodating space, and two first elastic bodies abutting against the slider blocks. The latch unit includes a tongue element and two tongue openings provided on the tongue element. The fastening unit includes two bolt bodies passing through the first apertures, and two second elastic bodies abutting against the bolt bodies. When the tongue element is separated from the two slider blocks, the two slider blocks are pushed by the two first elastic bodies, and the two bolt bodies is pushed against by the two slider blocks. When the tongue element is in contact with the two slider blocks, the two slider blocks are pushed by the tongue element, and the two bolt bodies are pushed into the two tongue openings by the two second elastic bodies, so that the tongue element can be securely fastened. Accordingly, the external pulling force of the tongue element can be increased, and the structure of the buckle device can be effectively improved.

IPC 8 full level  
**A44B 11/25** (2006.01)

CPC (source: EP)  
**A44B 11/2523** (2013.01); **A44B 11/2573** (2013.01)

Citation (examination)  
• CA 3093730 A1 20220321 - BROGENT TECH INC [TW]  
• CN 113941159 A 20220118 - BROGENT TECH INC

Cited by  
EP4137368A1

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

DOCDB simple family (publication)  
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