

Title (en)  
NUCLEAR POWER PLANT PERSONNEL AIRLOCK BUFFERING DEVICE

Title (de)  
PUFFERUNGSVORRICHTUNG FÜR PERSONALSCHLEUSE EINES KERNKRAFTWERKS

Title (fr)  
DISPOSITIF DE MISE EN TAMPON DE SAS POUR PERSONNEL DE CENTRALE NUCLÉAIRE

Publication  
**EP 3875720 A4 20220720 (EN)**

Application  
**EP 18938931 A 20181202**

Priority  
• CN 2018118805 W 20181202  
• CN 201811293435 A 20181031

Abstract (en)  
[origin: EP3875720A1] A nuclear power plant personnel gate buffer device includes: a chuck structural member, fixed on a door frame and including an electromagnetic chuck and a chuck base plate that are fixedly connected, the chuck base plate being provided with sliding plates at two sides thereof, the electromagnetic chuck and the chuck base plate connected together being capable of moving up and down along the sliding plates, and the electromagnetic chuck being connected to a power supply for controlling the power supply time of the electromagnetic chuck; and a suction plate structural member, fixed on a door plate and including a suction plate, a suction plate connecting plate and a door plate connecting plate, the suction plate being fixed on the suction plate connecting plate, with a first spring being arranged between the suction plate connecting plate and the door plate connecting plate, the first spring being provided with a first mandrel therein, one end of the first mandrel being fixed to the suction plate connecting plate, the other end of the first mandrel passing through the door plate connecting plate and arranging the first spring between the suction plate connecting plate and the door plate connecting plate by an auxiliary member; wherein the chuck structural member and the suction plate structural member can be attached to be locked or opened.

IPC 8 full level  
**E05F 5/02** (2006.01); **E05C 19/16** (2006.01); **G21D 1/00** (2006.01)

CPC (source: CN EP)  
**E05C 19/166** (2013.01 - CN EP); **E05F 5/02** (2013.01 - CN); **E06B 3/36** (2013.01 - EP); **E06B 3/70** (2013.01 - EP); **E06B 5/10** (2013.01 - EP); **E05F 5/02** (2013.01 - EP); **E05Y 2201/474** (2013.01 - EP); **E05Y 2900/11** (2013.01 - EP)

Citation (search report)  
• [A] US 2009160201 A1 20090625 - DOLD JEFFREY BENNETT [US], et al  
• [A] JP 2000145249 A 20000526 - KURIKI SEISAKUSHO KK  
• [A] FR 2945830 A3 20101126 - GIANNI IND INC [TW]  
• See references of WO 2020087639A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 3875720 A1 20210908**; **EP 3875720 A4 20220720**; **EP 3875720 B1 20231129**; CN 109209094 A 20190115; CN 109209094 B 20200828; WO 2020087639 A1 20200507

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