

Title (en)  
TELESCOPIC PIPE BUFFER STRUCTURE

Title (de)  
TELESKOPISCHE ROHRPUFFERSTRUKTUR

Title (fr)  
STRUCTURE TAMPON DE TUYAU TÉLESCOPIQUE

Publication  
**EP 3653832 A4 20210421 (EN)**

Application  
**EP 18832839 A 20180607**

Priority  
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• CN 2018090210 W 20180607

Abstract (en)  
[origin: EP3653832A1] A telescopic pipe buffer structure (100), comprising an inner tube (1), an outer tube (2), a buffer plate (3), a gear plate (4), and a guide sleeve (5); the inner tube (1) is slidably sleeved in the outer tube (2); the buffer plate (3), the gear plate (4), and the guide sleeve (5) correspond to the cross section of the inner tube (1); the guide sleeve (5) is fixed on an end face of the inner tube (1); the gear plate (4) is fixed on the guide sleeve (5) by means of a screw (7); a surrounding accommodating groove (6) is formed between the gear plate (4) and the guide sleeve (5); and the buffer plate (3) is provided at one side of the accommodating groove (6) close to the gear plate (4). The buffer structure (100) can enable a telescopic ladder to be cached when extending and to be rapidly retracted.

IPC 8 full level  
**E06C 1/12** (2006.01); **E06C 7/00** (2006.01)

CPC (source: EP)  
**E06C 1/125** (2013.01); **E06C 7/00** (2013.01)

Citation (search report)  
• [A] CN 206129129 U 20170426 - DONGGUAN PRESTIGE SPORTING PRODUCTS CO LTD  
• [A] CN 205840753 U 20161228 - YONGKANG FUSHI HOUSEHOLD PRODUCTS CO LTD  
• See references of WO 2019011082A1

Cited by  
WO2023101584A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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