

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
• CN 201720833364 U 20170710
• 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)
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)
EP 3653832 A1 20200520; EP 3653832 A4 20210421; EP 3653832 B1 20221012; CN 207033331 U 20180223; DK 3653832 T3 20221114; WO 2019011082 A1 20190117

DOCDB simple family (application)
EP 18832839 A 20180607; CN 201720833364 U 20170710; CN 2018090210 W 20180607; DK 18832839 T 20180607