

Title (en)  
TOOTHBRUSH STRUCTURE

Title (de)  
ZAHNBÜRSTENSTRUKTUR

Title (fr)  
STRUCTURE DE BROSSÉ À DENTS

Publication  
**EP 4265150 A1 20231025 (EN)**

Application  
**EP 23166146 A 20230331**

Priority  
TW 111203915 U 20220418

Abstract (en)  
An improved toothbrush structure includes a handle with a toothbrush head disposed at an upper end of the handle. A groove is formed on a side of the toothbrush head and the groove is provided with a cleaning device, and a glue for fixing and adhering the groove of the toothbrush head and the cleaning device with each other, and the cleaning device includes but not limited to a sponge cleaning device, a non-woven fiber cleaning device, a nylon fiber cleaning device, a plant fiber cleaning device, a functional fabric cleaning device or a plastic cleaning device. The cleaning device has an end surface in a shape including but not limited to a flat shape or a wavy shape.

IPC 8 full level  
**A46B 9/00** (2006.01); **A46B 9/02** (2006.01); **A46B 9/04** (2006.01)

CPC (source: BR EP KR US)  
**A46B 3/00** (2013.01 - BR); **A46B 9/005** (2013.01 - EP US); **A46B 9/028** (2013.01 - EP); **A46B 9/04** (2013.01 - EP KR);  
**A46B 2200/1066** (2013.01 - EP KR US)

Citation (search report)

- [X] US 2019200744 A1 20190704 - JIMENEZ EDUARDO [US], et al
- [X] US 7930792 B2 20110426 - RUSSELL BRUCE M [US]
- [X] US 8234741 B2 20120807 - BOYD THOMAS [US], et al

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4265150 A1 20231025**; AU 2023202019 A1 20231102; BR 202023007096 U2 20231024; CA 3196082 A1 20231018;  
CL 2023001096 U1 20230811; CN 220423384 U 20240202; JP 3242388 U 20230612; KR 20230002037 U 20231025; TW M634763 U 20221201;  
US 2023329428 A1 20231019; ZA 202304259 B 20231220

DOCDB simple family (application)  
**EP 23166146 A 20230331**; AU 2023202019 A 20230402; BR 202023007096 U 20230414; CA 3196082 A 20230414;  
CL 2023001096 U 20230414; CN 202223453331 U 20221222; JP 2023001258 U 20230413; KR 20230000667 U 20230404;  
TW 111203915 U 20220418; US 202318300620 A 20230414; ZA 202304259 A 20230411