

Title (en)
A BRISTLE TUFT ASSEMBLY AND A TOOTHBRUSH DEVICE

Title (de)
BORSTENBÜSCHEL UND ZAHNBÜRSTENVORRICHTUNG

Title (fr)
ENSEMBLE DE TOUFFES DE POILS ET DISPOSITIF DE BROSSÉ À DENTS

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EP 3440956 A1 20190213 (EN)

Application
EP 17185651 A 20170809

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Abstract (en)
This invention provides a bristle tuft assembly, comprising a bristle tuft, a compression plate, a base, and a base support plate, the base is configured with an accommodation chamber which has a wide top and a narrow bottom, forming a reversed splayed shape. The base support plate is placed horizontally and fit into the bottom of the accommodation chamber, the compression plate is placed vertically and fit into the accommodation chamber, the middle part of the bristle tuft is compressed and fixed between the vertically placed compression plate and the horizontally placed base support plate, both ends of the bristle tuft go through the space in the accommodation chamber and are set up and exposed outside the base. This invention further provides a toothbrush device, comprising the above mentioned bristle tuft assembly. The bristle tuft assembly occupies little room, and a toothbrush device can easily accommodate multiple bristle tuft assemblies, and the bristle tuft of the assembly is firmly fastened, not easy to fall off, and the multiple bristle tuft assemblies on the toothbrush device can flexibly and independently move in different directions.

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Citation (search report)

- [IY] US 5590438 A 19970107 - CHEN ALBERT C [US], et al
- [Y] GB 2182239 A 19870513 - MITSUBISHI PENCIL CO
- [Y] DE 19519291 A1 19961128 - ZAHORANSKY ANTON GMBH & CO [DE]
- [Y] EP 0504893 A1 19920923 - KIM JI WAN [KR], et al

Cited by
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