Title (en)

HYDROMECHANICALLY DRIVEN MASSAGE AND HYDROTHERAPEUTIC APPARATUS

Publication

EP 0060196 A3 19830817 (FR)

Application

EP 82400392 A 19820305

Priority

FR 8104739 A 19810310

Abstract (en)

[origin: US4432355A] A massaging device designed for hydrotherapy is provided with an hydromechanical drive capable of operating effectively in any position, even when the device is held in a vertical position or upside down. The device comprises a paddle wheel (6) energized by water flowing from the mains through a duct (3) converging towards a distributor (5) from which the water flows tangentially to the wheel (6). Beyond the distributor, the water stream is smoothly guided by a gradually diverging arcuate side wall (16) towards an exhaust channel (18) lined by a concave wall (20) for directing the exhaust jet towards the massaging balls (12) which are freely rotating on studs (13) fixed on the tip of a drive shaft (11). This drive shaft is driven by the turbine wheel through a reducing gear enclosed in a water-tight housing (25), separated from the water circuit. The smooth guiding of the water stream by arcuate walls 16 and 20 ensures that this stream retains sufficient kinetic energy for forming a strong exhaust jet appropriate for hydrotherapy, irrespective of the position of the massaging device.

IPC 1-7

A61H 15/00; A61H 9/00

IPC 8 full level

A61H 9/00 (2006.01); **A46B 13/06** (2006.01); **A61H 15/00** (2006.01); **A61H 23/04** (2006.01)

CPC (source: EP US)

A46B 13/06 (2013.01 - EP US); **A61H 15/0085** (2013.01 - EP US); A61H 2201/1238 (2013.01 - EP US)

Citation (search report)

- [A] US 2258931 A 19411014 - HEER FRANCIS C, et al
- [A] US 2641256 A 19530609 - SCHMIDT FRIEDA W
- [A] US 1899208 A 19330228 - HAYES MURPHY DANIEL
- [A] US 4228558 A 19801021 - ZHADANOV SEMEN
- [A] DE 2634772 A1 19780209 - VOSS ARMATUREN
- [A] CH 459143 A 19680715 - SONDEREGGER WALTER [CH]

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0060196 A2 19820915; **EP 0060196 A3 19830817**; **EP 0060196 B1 19860730**; DE 3272241 D1 19860904; FR 2501503 A1 19820917; FR 2501503 B1 19831104; JP S57153650 A 19820922; US 4432355 A 19840221

DOCDB simple family (application)

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