

Title (en)
Massage unit.

Title (de)
Massage-Einheit.

Title (fr)
Appareil de massage.

Publication
EP 0343912 B1 19940119 (EN)

Application
EP 89305181 A 19890523

Priority
• US 19997188 A 19880527
• US 26194388 A 19881024
• US 31604789 A 19890224

Abstract (en)
[origin: EP0343912A2] A unit for use in a tub (10) or spa to provide a dry hydro-massage of the neck and shoulders. The units (12) mounts to the tub edge (14) and includes a diaphragm (36) which sealingly covers a discharge jet (26) such that the fluid will flex the diaphragm into massaging relationship with the user's body. The water is exhausted into the tub through a secondary port (46) below the water line such that dry hydro-therapy is provided by the unit. The inflation of the diaphragm is controlled by pressure regulating ports (42) formed within a housing (16) of the unit to control the exhaust of fluid from the jet chamber. In one embodiment, the ports are variable to vary the inflation pressure of the diaphragm. With the unit mounted to the tub the user may remain seated within the spa while the unit provides a dry hydro-massage of the neck and upper back normally positioned above the water line. To provide increased freedom of application of the hydro-massage, the unit may be incorporated into a telescopingly adjustable assembly associated with the tub wall or a hand-held assembly.

IPC 1-7
A61H 23/04

IPC 8 full level
A61H 9/00 (2006.01); **A61H 23/04** (2006.01); **A61H 33/00** (2006.01)

CPC (source: EP)
A61H 23/04 (2013.01); **A61H 33/6036** (2013.01); **A61H 33/6047** (2013.01); **A61H 33/6063** (2013.01); **A61H 33/6089** (2013.01); **A61H 2201/1609** (2013.01); **A61H 2201/1614** (2013.01); **A61H 2201/1654** (2013.01); **A61H 2203/02** (2013.01); **A61H 2203/0431** (2013.01); **A61H 2205/04** (2013.01); **A61H 2205/062** (2013.01)

Cited by
EP0870489A3; EP1695683A1; EP0901784A3; CN109223480A

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0343912 A2 19891129; EP 0343912 A3 19901212; EP 0343912 B1 19940119; AU 3507189 A 19891130; AU 610400 B2 19910516; CA 1317415 C 19930511; CA 1317416 C 19930511; CA 1317417 C 19930511; DE 68912402 D1 19940303; DE 68912402 T2 19940511; JP H0271741 A 19900312; JP H04665 B2 19920108

DOCDB simple family (application)
EP 89305181 A 19890523; AU 3507189 A 19890523; CA 600775 A 19890526; CA 616020 A 19910315; CA 616021 A 19910315; DE 68912402 T 19890523; JP 13448789 A 19890526