

Title (en)

Dishwashing machine with lower and upper spray arm and a circulating pump with liquid heating means

Title (de)

Geschirrspülmaschine mit unterem und oberem Sprüharm und mit einer Umwälzpumpe die eine Flüssigkeitsheizvorrichtung umfasst

Title (fr)

Lave-vaisselle comportant un bras supérieur et inférieur de pulvérisation et une pompe de circulation comportant des moyens pour chauffer le liquide

Publication

**EP 0898928 B1 20030402 (EN)**

Application

**EP 98114525 A 19980803**

Priority

DE 19736794 A 19970823

Abstract (en)

[origin: EP0898928A1] The invention relates to a dishwashing machine with a lower and upper spray arm and a circulating pump which sucks in rinse water from a sump of the rinsing container and feeds the spray arms, the impeller of which projects into the rinsing container and is surrounded by a pump casing which is provided with inlet openings. The installation of a tubular heating element for heating the rinse water may thus be used for reducing the parts and assembly costs and also for improving the heat efficiency in that the pump casing is formed by a tubular heating element, the connections of which are directed to the lower side of the base of the rinsing container which is designed as a downcomer and in that the upper end of the tubular heating element is also fixed in a filter covering the downcomer and/or in a bearing element which is held in the filter and provided with exits to the spray arms.

IPC 1-7

**A47L 15/42**

IPC 8 full level

**A47L 15/42** (2006.01)

CPC (source: EP)

**A47L 15/4225** (2013.01); **A47L 15/4285** (2013.01); **A47L 15/4289** (2013.01)

Cited by

US9687135B2; CN108634893A; EP1224902A3; US6736598B2; FR2800263A1; EP1762168A3; IT201900005334A1; EP2067430A1; EP2810595A1; US10076226B2; US10058228B2; EP2221485A3; WO2020208500A1; US9861251B2; US10178939B2; US10314457B2; EP1574161A1; US2017079503A1; US9649006B2; EP3134653A4; US9649007B2; US9757008B2; US9826882B2; US9962060B2; US9700196B2; US11882977B2; US9668636B2; US9730570B2; US10376128B2; US11134825B2; US9918609B2; US10070769B2; US10779703B2; US10653291B2; US10813525B2; US9833120B2; US10058227B2; US10602905B2

Designated contracting state (EPC)

DE ES FR GB GR IT

DOCDB simple family (publication)

**EP 0898928 A1 19990303**; **EP 0898928 B1 20030402**; BR 9806517 A 20010313; DE 19736794 A1 19990225; DE 19736794 C2 20000406; DE 69812803 D1 20030508; DE 69812803 T2 20031224; ES 2196437 T3 20031216

DOCDB simple family (application)

**EP 98114525 A 19980803**; BR 9806517 A 19980819; DE 19736794 A 19970823; DE 69812803 T 19980803; ES 98114525 T 19980803