

Title (en)

LAUNDRY TREATING EQUIPMENT WITH A DRIVING MOTOR MOUNTED ON THE DRUM SHAFT

Title (de)

WÄSCHEBEHANDLUNGSGERÄT MIT EINEM AUF DER TROMMELWELLE ANGEORDNETEN ANTRIEBSMOTOR

Title (fr)

APPAREIL DE TRAITEMENT DE LESSIVE AVEC UN MOTEUR D'ENTRAÎNEMENT MONTE SUR L'ARBRE DU TAMBOUR

Publication

EP 0960231 B1 20020515 (DE)

Application

EP 98906957 A 19980217

Priority

- DE 19706184 A 19970217
- EP 9800902 W 19980217

Abstract (en)

[origin: US6341507B1] The invention relates to a laundry treatment apparatus like washing machines, laundry dryers or a washer-dryers with a rotatably mounted drum (6) with an at least approximately horizontal axle and with a drive motor (10) structured as a synchronous motor (10) energized by permanent magnets arranged on the drum (6) shaft, the stator (16) of the motor (10) being provided with a winding (18) which is energized by a converter. In order to optimize the motor in such machines in respect of energy consumption, noise development and costs it is proposed to design the winding (18) as a single pole winding, whereby the number of stator poles (27) and of the magnet poles (23) is different, and to utilize a frequency converter (104) as the converter the output voltage of which being set such the continuous currents are generated in all winding strands.

IPC 1-7

D06F 37/30

IPC 8 full level

D06F 37/22 (2006.01); **D06F 37/30** (2006.01); **D06F 58/02** (2006.01)

CPC (source: EP US)

D06F 37/304 (2013.01 - EP US)

Cited by

DE102015101043A1; US9906084B2; US10998784B2; EP0982425B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

US 6341507 B1 20020129; AT E217655 T1 20020615; DE 19806258 A1 19980820; DE 59804137 D1 20020620; EP 0960231 A2 19991201; EP 0960231 B1 20020515; EP 0960231 B2 20120125; ES 2176972 T3 20021201; JP 2001511674 A 20010814; KR 100436152 B1 20040618; KR 20000069295 A 20001125; WO 9836123 A2 19980820; WO 9836123 A3 19981119

DOCDB simple family (application)

US 36737899 A 19990812; AT 98906957 T 19980217; DE 19806258 A 19980217; DE 59804137 T 19980217; EP 9800902 W 19980217; EP 98906957 A 19980217; ES 98906957 T 19980217; JP 53537798 A 19980217; KR 19997004953 A 19990604