

Title (en)  
METHOD FOR DETERMINING UNBALANCE OF A CLOTHES DRUM

Title (de)  
VERFAHREN BESTIMMEN DER UNWUCHT EINER WÄSCHETROMMEL

Title (fr)  
PROCEDE POUR DETERMINER LE BALOURD D'UN TAMBOUR DE LINGE

Publication  
**EP 1525349 A2 20050427 (DE)**

Application  
**EP 03766140 A 20030709**

Priority

- DE 10234053 A 20020726
- EP 0307388 W 20030709

Abstract (en)  
[origin: US2005143940A1] Before a washing machine is switched over to a very high spin speed in the spin program of the washing machine, the existing imbalance due to irregular distribution of laundry in the drum should be checked. If the imbalance is too strong, the spin program should be interrupted if there is a threat of excessively high bearing forces to be expected. The fluctuation in rotary speed, which may have a high frequency due to the drum speed, and of the power consumption of the washing machine motor measured downstream of the direct current intermediate circuit prior to the feed thereof into the inverter for producing the rotary field in the motor. There, the vector product of the current and the voltage for imbalance measurement by determining power is blocked off from mains network interference effects by the high capacitance of the direct current intermediate circuit.

IPC 1-7  
**D06F 37/20**

IPC 8 full level  
**D06F 34/16** (2020.01); **D06F 37/20** (2006.01)

CPC (source: EP US)  
**D06F 34/16** (2020.02 - EP US)

Citation (search report)  
See references of WO 2004013401A2

Cited by  
DE102012021747B4; EP2679714A2; DE102012021747A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2005143940 A1 20050630; US 6973392 B2 20051206;** AT E490362 T1 20101215; AU 2003253042 A1 20040223; CA 2492551 A1 20040212; CA 2492551 C 20071113; DE 10234053 C1 20031120; DE 50313295 D1 20110113; EP 1525349 A2 20050427; EP 1525349 B1 20101201; WO 2004013401 A2 20040212; WO 2004013401 A3 20040429

DOCDB simple family (application)  
**US 4080505 A 20050121;** AT 03766140 T 20030709; AU 2003253042 A 20030709; CA 2492551 A 20030709; DE 10234053 A 20020726; DE 50313295 T 20030709; EP 0307388 W 20030709; EP 03766140 A 20030709