

Title (en)
Fan

Title (de)
Ventilator

Title (fr)
Ventilateur

Publication
EP 1167776 A3 20021023 (DE)

Application
EP 01114758 A 20010625

Priority
DE 10031725 A 20000629

Abstract (en)
[origin: EP1167776A2] A heater (15) occupies at least one part of the blades (13), to heat the flow.

IPC 1-7
F04D 29/58; F04D 29/38; F04D 29/30; F04D 25/08; F24H 3/04

IPC 8 full level
F04D 29/30 (2006.01); **F04D 29/38** (2006.01); **F04D 29/58** (2006.01); **F24H 3/04** (2006.01)

CPC (source: EP)
F04D 29/30 (2013.01); **F04D 29/388** (2013.01); **F04D 29/582** (2013.01); **F24H 3/0411** (2013.01)

Citation (search report)

- [X] EP 0964211 A2 19991215 - ELETTRICOMPONENTI S R L [IT], et al
- [X] WO 9949700 A2 19990930 - THERMO & BULL [US]
- [X] CH 216491 A 19410831 - WALDER PAUL [IT], et al
- [X] DE 3303979 A1 19830908 - ELEKTROGERAETE INGBUERO VEB [DD]
- [XA] US 5545009 A 19960813 - KE CHIN-FU [TW]
- [X] US 1737912 A 19291203 - BOGARD FRANK T

Cited by
ES2408508A1; CN113153781A; EP3875778A1; CN113357174A

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1167776 A2 20020102; **EP 1167776 A3 20021023**; DE 10031725 A1 20020110

DOCDB simple family (application)
EP 01114758 A 20010625; DE 10031725 A 20000629