

## Title (en)

Dust collection adapter and power tool including dust collection adapter

## Title (de)

Staubabsaugungsadapter und Elektrowerkzeug, das einen Staubabsaugungsadapter enthält

## Title (fr)

Adaptateur de collecte de poussière et outil électrique incluant l'adaptateur de collecte de poussière

## Publication

**EP 2479001 A1 20120725 (EN)**

## Application

**EP 12151597 A 20120118**

## Priority

- JP 2011008439 A 20110119
- JP 2011009386 A 20110120
- JP 2011073801 A 20110330
- JP 2011077341 A 20110331
- JP 2011207278 A 20110922

## Abstract (en)

To a power tool main body (10a) to which a main body spindle (17) rotationally driving a tip tool (23) is provided, a dust collection adapter (20) for collecting dusts generated when a material to be ground is processed by the tip tool (23) is held thereto. The dust collection adapter includes: a dust collection fan (31) rotationally driven by the main body spindle (17); and a dust collection cover (32) for containing the dust collection fan (31) and covering a diametrical outside of the tip tool (23). The dust collection fan includes: a fan main body to which a plurality of blade portions (31b) are provided; and a threaded shaft portion (51) provided to a center portion of the fan main body. To the threaded shaft portion, a female thread portion (54) thread-coupled to the main body spindle (17) and a male thread portion (55) thread-coupled to a fastening thread member (28a) for fixing the tip tool (23) are provided.

## IPC 8 full level

**B24B 55/10** (2006.01)

## CPC (source: EP US)

**B24B 55/102** (2013.01 - EP US)

## Citation (applicant)

- JP 2009138203 A 20090625 - HITACHI CHEMICAL CO LTD
- JP S55103143 U 19800718
- JP 2009023005 A 20090205 - HITACHI KOKI KK

## Citation (search report)

- [IA] US 5419737 A 19950530 - BRAZELL KENNETH M [US], et al
- [A] US 4930264 A 19900605 - HUANG KAN-CHI [TW]
- [A] US 2001023168 A1 20010920 - WUENSCH STEFFEN [DE], et al
- [A] FR 2872076 A1 20051230 - M B H DEV SARL [FR]

## Cited by

EP3208040A1; CN108698200A; EP3208039A1; CN108698199A; US10434628B2; WO2022122529A1; WO2017140655A1; WO2017140657A1; EP3421173A1; EP4190491A1; DE102021131984A1; EP3894132B1

## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

## Designated extension state (EPC)

BA ME

## DOCDB simple family (publication)

**EP 2479001 A1 20120725; EP 2479001 B1 20200617**; CN 102601712 A 20120725; TW 201233507 A 20120816; US 2012184192 A1 20120719

## DOCDB simple family (application)

**EP 12151597 A 20120118**; CN 201210023227 A 20120117; TW 101102090 A 20120119; US 201213353835 A 20120119