

Title (en)
Device for cutting filter rods

Title (de)
Einrichtung zum Schneiden von Filterstäben

Title (fr)
Dispositif de coupe de tiges de filtre

Publication
EP 2666373 B1 20180801 (DE)

Application
EP 13166356 A 20130503

Priority
DE 102012208604 A 20120523

Abstract (en)
[origin: EP2666373A2] The device (1) has one or multiple knives with a knife driving shaft. The knives are arranged on a conveyor element for cutting the rod-shaped articles into the article rod segments. The knife driving shaft is connected or detachably connected to drive. A coupling unit is provided for forming the detachable connection between the rotatable knife driving shaft and the drive. The knife driving shaft is moved in longitudinal- or axial direction, particularly in removable, pluggable or snap-on manner, after release or formation of the connection between the knife driving shaft and the drive.

IPC 8 full level
A24D 3/02 (2006.01); **B26D 1/14** (2006.01); **B26D 1/15** (2006.01); **B26D 3/16** (2006.01); **B26D 7/08** (2006.01); **B26D 7/18** (2006.01)

CPC (source: EP)
A24D 3/0254 (2013.01); **B26D 1/14** (2013.01); **B26D 1/15** (2013.01); **B26D 3/161** (2013.01); **B26D 7/088** (2013.01); **B26D 7/1863** (2013.01)

Citation (opposition)
Opponent : G.D S.p.A.

- DE 102007059625 A1 20090618 - HAUNI MASCHINENBAU AG [DE]
- DE 1929949 U 19651223 - MOLINS MACHINE CO LTD [GB]
- GB 1043706 A 19660921 - JAN ANTONI RAKOWICZ, et al
- US 3731451 A 19730508 - SEXSTONE J, et al
- WO 2009074540 A1 20090618 - PHILIP MORRIS PROD [CH], et al
- DE 4215947 A1 19921119 - FOCKE & CO [DE]
- US 2006048616 A1 20060309 - GRENIER GILBERT [FR], et al
- US 3460418 A 19690812 - MATHE GEORGE L, et al
- DE 102010033871 A1 20110217 - GD SPA [IT]
- ANONYMOUS: "Gehäuse", WIKIPEDIA, 6 February 2019 (2019-02-06), pages 1 - 2, XP055588947, Retrieved from the Internet <URL:https://de.wikipedia.org/wiki/Geh%C3%A4use>
- ANONYMOUS: "Getriebe", WIKIPEDIA, 10 April 2019 (2019-04-10), https://de.wikipedia.org/wiki/Getriebe, pages 1 - 7, XP055588948
- ANONYMOUS: "Getriebegehäuse", WIKIPEDIA, 14 September 2018 (2018-09-14), pages 1 - 2, XP055588949, Retrieved from the Internet <URL:https://de.wikipedia.org/wiki/Getriebegeh%C3%A4use>
- MATEK W. ET AL: "ROLOFF/MATEK Maschinenelemente", 2000, VIEWEG, ISBN: 978-3-322-96976-7, article "Zahnräder und Zahnradgetriebe", pages: 662 - 663, XP055588951
- E. BÜRGER ET AL: "Konstruktionselemente der Feinmechanik", 1993, HANSER, ISBN: 3-446-16530-4, article "Getriebe", pages: 533, 604 - 605, XP055588955
- AKADEMISCHEN VEREIN HÜTTE: "Maschinebau Teil A", 1954, VERLAG, article "Getriebe", pages: 179, 189, XP055588956
- DR. - ING. W. - P. KONEBERG: "Maschinenzeichnen, Normteile, Toleranzen, Passungen", VORLESUNGSUNTERLAGEN, 1987, TU München, XP055588958

Cited by
CN118616794A; CN111152275A; EP3298910A1; IT201600094846A1; CN110774331A; CN112998311A; EP3430915A1; EP3216355B1; EP3430915B1

Designated contracting state (EPC)
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