



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 1 466 666 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
18.05.2005 Bulletin 2005/20

(51) Int Cl.7: **B02C 18/12, B02C 18/24,**
H02P 7/295

(43) Date of publication A2:
13.10.2004 Bulletin 2004/42

(21) Application number: **04252071.8**

(22) Date of filing: **07.04.2004**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL HR LT LV MK

(72) Inventor: **Jordan, Christopher**
Stowmarket IP14 2RA (GB)

(74) Representative: **Wright, Hugh Ronald**
Brookes Batchellor LLP,
102-108 Clerkenwell Road
London EC1M 5SA (GB)

(30) Priority: **07.04.2003 GB 0308012**

(71) Applicant: **Robert Bosch GmbH**
70442 Stuttgart (DE)

(54) **Garden shredder**

(57) A garden shredder to shred garden material comprising a feeder for receiving said garden material, one or more blades for shredding said garden material received by said feeder, a series-type electric motor connected to move said one or more blades, and an electronic controller for controlling the electric motor, the electronic controller comprising an electronic circuit including means to sense the speed of rotation of the motor and means to control the speed of the motor to reduce the increase of the speed of rotation of the motor when the load applied to the motor by said one or more blades is reduced or removed. In this way, when there is no or only a small amount of garden material fed to the blades, the increase of the speed of rotation of the blades and hence the noise generated is reduced.

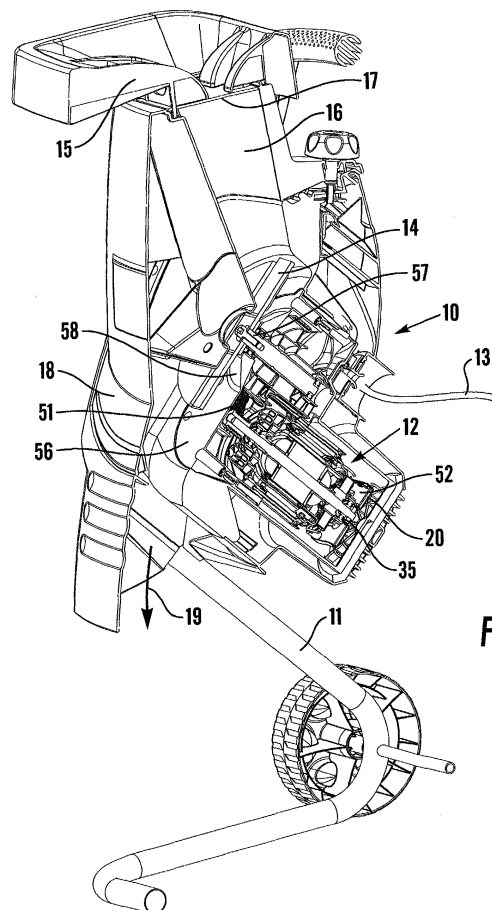


Fig.2

EP 1 466 666 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 25 2071

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 4 936 517 A (KAMMERER ET AL) 26 June 1990 (1990-06-26) * column 2, lines 56-63; figure 1 * * column 2, lines 67,68 * * column 1, lines 56-66 * * column 2, line 34.54; figure 2 *	1	B02C18/12 B02C18/24 H02P7/295
Y	* column 1, lines 26-28,53-66; figure 2 * -----	2-17	
Y	DE 196 17 673 A1 (VIKING-UMWELTECHNIK GES.M.B.H., KUFSTEIN, AT) 6 November 1997 (1997-11-06) * column 1, lines 29-33; figure 1 * * column 3, lines 29-55 * -----	2,4	
Y	DE 42 31 376 A1 (BLAHA, JIRKA, DIPL.-ING., 7850 LOERRACH, DE) 24 March 1994 (1994-03-24) * column 4, line 50 - column 5, line 19; figures 3,4,9-11 * * column 7, lines 21-28 * * column 1, lines 28,29 *	2-17	
A	-----	1	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Y	EP 0 594 907 A (YANG, TAI-HER) 4 May 1994 (1994-05-04) * column 1, lines 15,16 * * column 2, lines 37-48 * * column 4, lines 51-58; figures 2,3 * * column 5, lines 53-58; figure 7 * * column 7, line 3051; figures 8-10 * -----	2-17	B02C H02P
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 29 March 2005	Examiner Kanelis, K
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

2
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 04 25 2071

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

29-03-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4936517	A	26-06-1990	DE 3735396 A1	03-05-1989
			DE 3864976 D1	24-10-1991
			DE 8717883 U1	20-12-1990
			EP 0313946 A1	03-05-1989

DE 19617673	A1	06-11-1997	NONE	

DE 4231376	A1	24-03-1994	NONE	

EP 0594907	A	04-05-1994	EP 0594907 A1	04-05-1994
			DE 69218603 D1	30-04-1997
			DE 69218603 T2	17-07-1997
			DK 594907 T3	21-07-1997
			ES 2099221 T3	16-05-1997
