



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 858 749 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
17.05.2000 Bulletin 2000/20

(51) Int. Cl.⁷: **A46B 9/02, A46B 5/02**

(43) Date of publication A2:
19.08.1998 Bulletin 1998/34

(21) Application number: **97304831.7**

(22) Date of filing: **02.07.1997**

(84) Designated Contracting States:
**AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
NL PT SE**

(30) Priority: **17.02.1997 JP 3211297**

(71) Applicant:
**Bloom Work Company, Incorporated
Yokohama, Kanagawa (JP)**

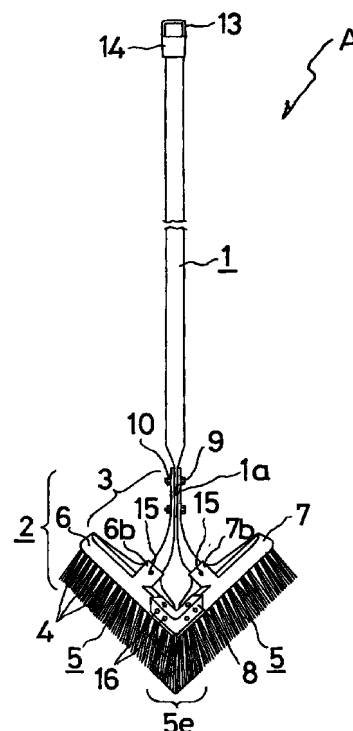
(72) Inventor: **Kamo, Kumiko
Yokohama, Kanagawa (JP)**

(74) Representative:
**Higgins, Michael Roger
A.R. Davies & Co.
27, Imperial Square
Cheltenham Glos. GL50 1RQ (GB)**

(54) **Broom and method of cleaning with the same**

(57) A broom (A) comprising a broomstick (1) and a broom body (2), wherein the broom body (2) having an orthogonally bent shape in a horizontal viewpoint comprises a retaining portion (3) to be attached to the flat tip portion (1a) of the broomstick (1), and a sweeping portion (5) to be implanted into the retaining portion (3), and the retaining portion (3) further comprises right and left linear implantation frames (6, 7) which receive the sweeping portion (5) through implantation and are connected orthogonally to each other, and right and left forked connection arms (11, 12) which are adapted to attach the right and left linear implantation frames (6, 7) to the flat tip portion (1a) of the broomstick (1).

Fig. 1



EP 0 858 749 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 30 4831

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.6)
A	US 4 653 137 A (FLEISCHHAUER) 31 March 1987 (1987-03-31) * column 6, line 14 - line 34; figures *	1,19	A46B9/02 A46B5/02
A	US 3 715 772 A (DOWNING) 13 February 1973 (1973-02-13) * column 3, line 59 - column 4, line 50; figures *	1,19	
A	US 4 360 940 A (SMITH) 30 November 1982 (1982-11-30) * column 2, line 19 - column 3, line 2; figures *	1,19	
A	US 3 761 990 A (LYNN) 2 October 1973 (1973-10-02) * column 1, line 51 - column 2, line 46; figures *	1,19	
A	US 3 046 587 A (HAMBURGER) 31 July 1962 (1962-07-31) * column 1, line 50 - column 2, line 40; figures *	1,19	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	US 2 849 740 A (PAUKER) 2 September 1958 (1958-09-02) * column 1, line 42 - column 2, line 39; figures *	1,19	A46B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23 March 2000	Examiner Triantaphillou, P
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			

EPO FORM 1508 03.82 (P4/C01)

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

EP 97 30 4831

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.

23-03-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4653137 A	31-03-1987	CA 1277113 A EP 0238213 A US 4638527 A	04-12-1990 23-09-1987 27-01-1987
US 3715772 A	13-02-1973	NONE	
US 4360940 A	30-11-1982	NONE	
US 3761990 A	02-10-1973	NONE	
US 3046587 A	31-07-1962	NONE	
US 2849740 A	02-09-1958	NONE	