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(71) Applicants:

 Huang, Kuan-Di **Sanchong City** T'ai pei (TW)

· Chen, Su-Shun Sanchong City T'ai pei (TW)

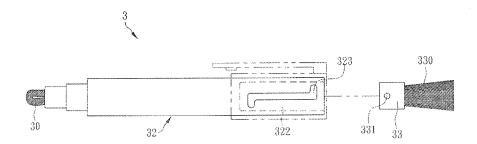
(72) Inventor: Huang, Kuan-Di Sanchong City, Taipei County (TW)

(74) Representative: Karakatsanis, Georgios Haft - Karakatsanis Siegesstrasse 13 80802 München (DE)

#### (54)Cleaning pen

(57)The present invention is to provide a cleaning pen (2,3), which includes a hollow clamping device (21) having two clamping units (210) able to be engaged with each other for clamping a wiping element (20,30) in a bent state and being inserted into a hollow housing (22,32) such that a bent portion (203) of the wiping element (20,30) juts out of the hollow housing (22,32) and can be used for cleaning an object. When the bent portion (203) is soiled or damaged, a user can conveniently and

sequentially take the wiping element (20,30) out from the hollow housing (22,32) and hollow clamping device (21), and then shift the soiled or damaged portion to a position for allowing the wiping element (20,30) to be clamped by the hollow clamping device (21) again and form a new bent portion (203) jutting out of the hollow housing (22,32), so as to effectively prevent the object from being scratched by edge of the wiping element (20,30) and prolong service life thereof.





# **EUROPEAN SEARCH REPORT**

Application Number EP 10 17 1197

1	DOCUMENTS CONSID				
Category	Citation of document with ir of relevant pass		opriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	CN 201 285 468 Y (T 5 August 2009 (2009 * abstract; figures	-08-05)	[CN])	1-6	INV. B08B1/00 G02C13/00
A	TW M 274 623 U (CHE 1 September 2005 (2 * figure 1 *		[TW])	1-6	
A	CH 249 885 A (AX HE 31 July 1947 (1947- * the whole documen	07-31)		1	
					TECHNICAL FIELDS SEARCHED (IPC) B08B G03B A47L G11B G02C
	The present search report has	Date of com	pletion of the search		Examiner
	The Hague	15 No	vember 2012	Pos	ten, Katharina
X : parti Y : parti docu A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone cularly relevant if combined with anotiment of the same category nological background written disclosure mediate document	ner	T: theory or principle E: earlier patent doo after the filing date D: document cited in L: document cited for &: member of the sar document	the application other reasons	hed on, or

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

EP 10 17 1197

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.

15-11-2012

Patent document cited in search report		Publication date	Patent family member(s)		Publicatio date
CN 201285468	Υ	05-08-2009	NONE		
TW M274623	U	01-09-2005	NONE		
CH 249885	Α	31-07-1947	NONE		
		fficial Journal of the Euro			