

US006344848B1

(12) United States Patent

Rowe et al.

US 6,344,848 B1 (10) Patent No.:

(45) Date of Patent: Feb. 5, 2002

(54) STYLUS ASSEMBLY

Inventors: Richard Rowe; Kulbir Sandhu, both

of San Jose, CA (US)

Assignee: Palm, Inc., Santa Clara, CA (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/253,588

Feb. 19, 1999 (22)Filed:

(51) Int. Cl.⁷ G09G 5/00

178/18-20; 81/181-182, 437-439; 7/160-162, 165, 167

(56)References Cited

U.S. PATENT DOCUMENTS

3,744,034 A	7/1973	Paul 340/172.5
4,860,372 A	8/1989	Kuzunuki et al 382/13
4,972,496 A	11/1990	Sklarew 382/13
5,018,411 A	* 5/1991	La Padura 81/57.5
5,231,381 A	7/1993	Duwaer 340/712
5,305,394 A	4/1994	Tanaka 382/13
5,389,745 A	2/1995	Sakamoto 178/18
5,434,929 A	7/1995	Beernink 382/187
5,444,192 A	8/1995	Shetye et al 178/18
5,452,371 A	9/1995	Bozinovic et al 382/187
5,528,743 A	6/1996	Tou et al 395/148
5,534,892 A	7/1996	Tagawa 345/173
5,615,284 A	3/1997	Rhyne et al 382/187
5,621,817 A	4/1997	Bozinovic et al 382/189
5,630,148 A	5/1997	Norris 395/750
5,635,682 A	* 6/1997	Cherdack 187/18
5,638,566 A	* 6/1997	Wu 7/167
5,698,822 A	12/1997	Haneda et al 178/18
5,841,901 A	11/1998	Arai et al 382/187
5,916,278 A	* 6/1999	Garcia 7/165

5,973,677 A	帥	10/1999	Gibbons	345/179
6,064,374 A	*	5/2000	Fukuzaki	345/179

OTHER PUBLICATIONS

Gray, R. et al., "Efficient MC68HC08 programming: reducing cycle count and improving code density", Dr. Dobb's Journal, vol. 20, No. 5, May 1995, pp. 70-75.

Ruley, J. et al., "Handheld-to-Handheld Combat", Windows Magazine, No. 811, p. 55, Nov. 1997.

Forbes, J. et al., "Palm PCs get a Big Hand (What's Hot)", Windows Magazine, No. 905, p. 96, May 1998.

Penwarden, M., "More Muscle for HP's OmniBook", Windows Magazine, No. 501, p. 110, Jan. 1994.

Feigel, C., "IBM, Motorola preview embedded PowerPCs; 403 and 505 processors combine strong performance with low cost", Microprocessor Report, vol. 8, No. 6, pp. 1-5, May 1994.

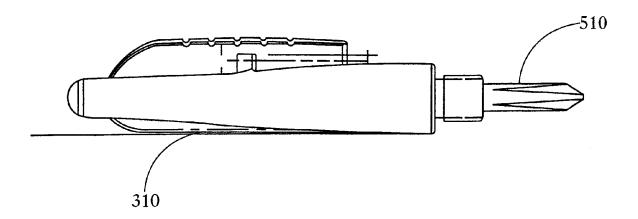
Dayton, D., "FRx extends reporting power of Platinum Series", PC Week, vol. 8. No. 5, p. 29(2), Feb. 1991.

Primary Examiner—Almis R. Jankus (74) Attorney, Agent, or Firm-Hickman Palermo Truong & Becker LLP; Van Mahamedi

ABSTRACT (57)

A stylus assembly adapted to enter data into an electronic device and provide a user with a tool to access the electronic device to maintain and/or repair the electronic device. The stylus assembly includes a stylus body and a stylus point coupled to the stylus body. The stylus point further includes a first end for entering data into and electronic device, such as a personal data assistant, and a second end coupled to the stylus body. A tool is then detachably coupled to one of the stylus body and the second end of the stylus point. When the tool is not accessing the electronic device and the stylus body and the stylus point are coupled together the tool is disposed within the other of the stylus point and the stylus body to which it is not attached.

31 Claims, 7 Drawing Sheets





^{*} cited by examiner

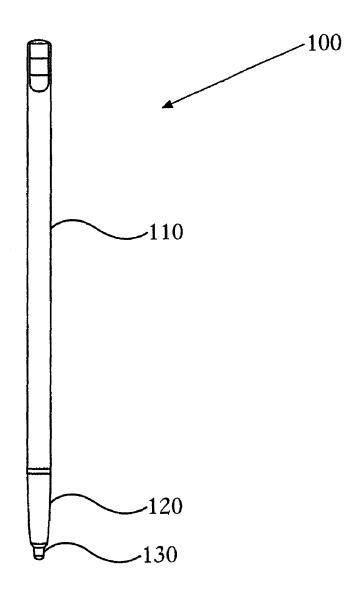


FIGURE 1



Feb. 5, 2002

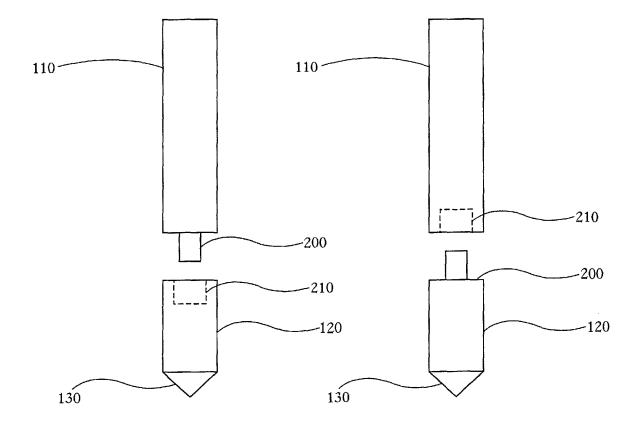


FIGURE 2A

FIGURE 2B

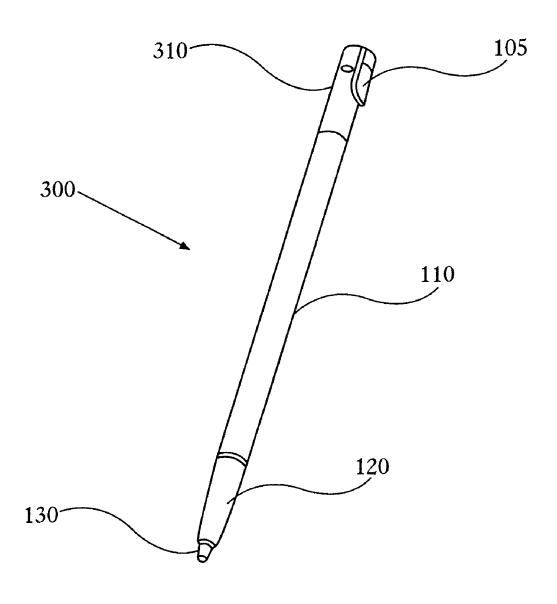
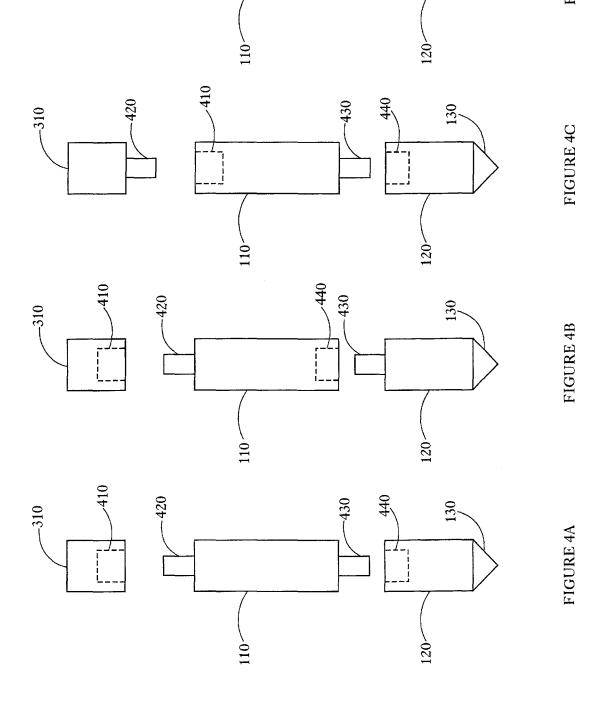


FIGURE 3





DOCKET A L A R M

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

