

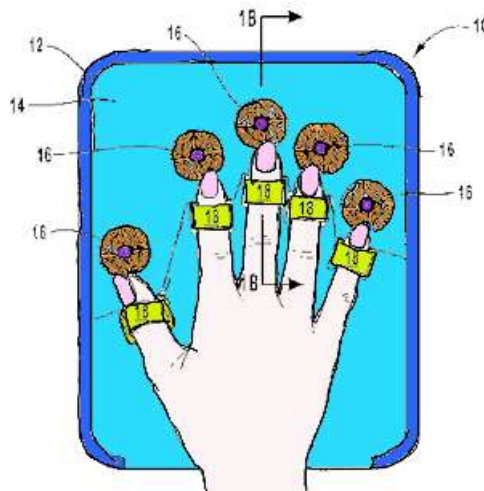
## 발명소개광장(12) - Fingernail Fanatic

공개번호	US Patent 6,016,812 / Issued 2000
제 목	Fingernail Fanatic
출원인	John M. Guynn

### 발 명 요 약

Inventor has spent way too much time thinking about clean fingernails, their history and their impact on society at large. But such a detailed mind has brought us a foolproof, completely automated machine for cleaning the hard substance growing from the end of our digits. The Fingernail Fanatic has an amazing array of features including, but not limited too (a little attorney speak there), motor driven, finely tuned oscillating brushes, fine jets of aqueous solutions and finger alignment tunnels to maintain proper digit orientation in the plane of the scrubbing zone.

멋쟁이를 위한 손톱깎기 아니 손톱정리하는 기계입니다. 처음보면 고문하는 기계처럼 보이기는 하지만, 효과는 좋다고 하나봐요.





US006016812A

**United States Patent** [19]  
**Guynn**

[11] **Patent Number:** **6,016,812**  
[45] **Date of Patent:** **Jan. 25, 2000**

[54] **APPARATUS AND SYSTEMS FOR CLEANING UNDER A PERSON'S FINGERNAILS**

4,915,331	4/1990	Becker et al.	132/73
5,027,839	7/1991	Appell	132/285
5,500,971	3/1996	Springmann	15/23
5,769,099	6/1998	Davis et al.	132/73.6
5,855,212	1/1999	Walker	132/73.5

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*Attorney, Agent, or Firm*—Workman, Nydegger & Seeley; John M. Guynn, Esq.

[21] Appl. No.: **09/205,139**

[22] Filed: **Dec. 3, 1998**

[57] **ABSTRACT**

[51] **Int. Cl.<sup>7</sup>** ..... **A45D 29/18**

[52] **U.S. Cl.** ..... **132/74.5**; 132/73; 132/73.6; 15/97.1; 15/21.1

[58] **Field of Search** ..... 132/73, 73.5, 75, 132/75.3, 76.4, 74.5, 73.6; 15/97.1, 21.1, 104.92, 167.3; 401/122, 219

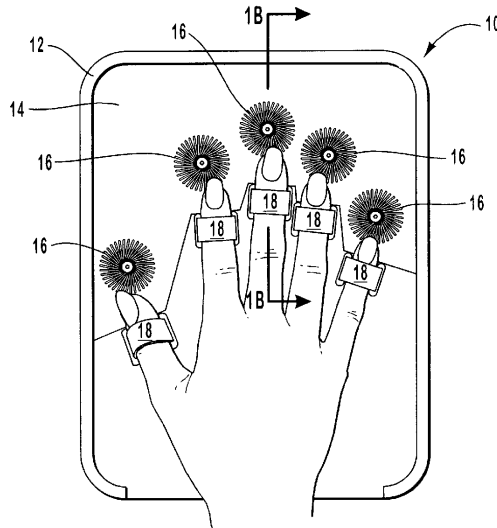
Apparatus and systems for use in cleaning the gap or crevice under a person's fingernails. The inventive apparatus includes one or more finger alignment guides which assist in maintaining the fingers in a desired orientation and a mechanical scrubber, such as a brush, individual strands, or a set of water jets, which are able to mechanically remove dirt and other foreign debris from the gap under a person's fingernails. The cleaning system further includes a cleaning liquid, such as an aqueous solution or other solvent-based liquid or solution that is able to assist the mechanical scrubber in removing foreign debris from under the fingernails. The alignment guide may be stationary while movement of the mechanical scrubber provides the scrubbing action. The mechanical scrubber will typically be driven by a motor or pump. Alternatively the fingers may move relative to the scrubber in order to provide the scrubbing action.

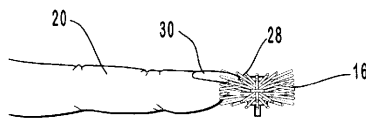
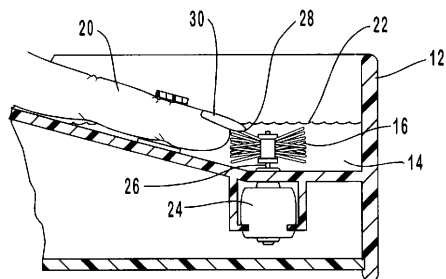
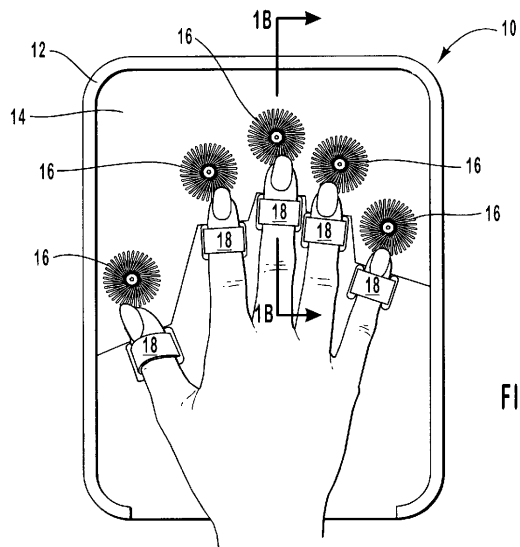
[56] **References Cited**

**U.S. PATENT DOCUMENTS**

2,223,204	11/1940	Carmichael	132/73.5
3,066,336	12/1962	Stobbe	15/21
3,966,335	6/1976	Abramson	401/196
4,130,908	12/1978	Alcama	15/21
4,137,929	2/1979	Grossman	134/182
4,296,766	10/1981	Benis	132/73
4,397,324	8/1983	Thomas, Jr.	132/73.5
4,510,954	4/1985	Miller	132/75
4,564,968	1/1986	Buckley	15/21
4,646,953	3/1987	Marshall et al.	132/73

**23 Claims, 4 Drawing Sheets**





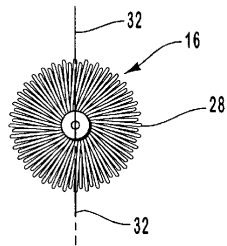


FIG. 2A

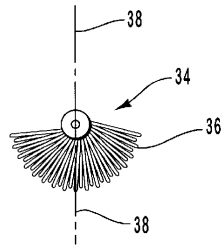


FIG. 2B

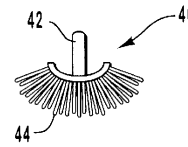


FIG. 2C

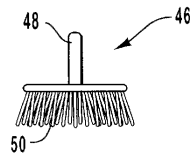


FIG. 2D

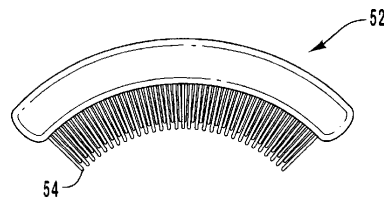


FIG. 2E

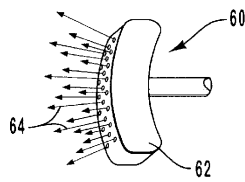


FIG. 3

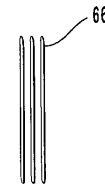


FIG. 4A

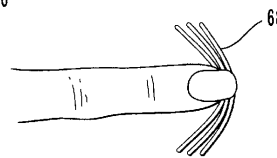


FIG. 4B

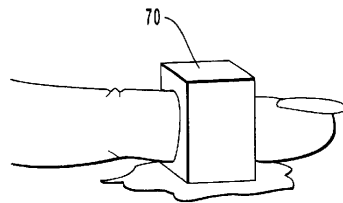


FIG. 5A

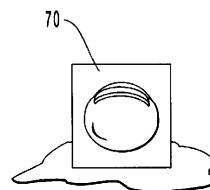


FIG. 5B