



US00D342003S

# United States Patent [19]

[11] Patent Number: **Des. 342,003**

Friel et al.

[45] Date of Patent: **\*\* Dec. 7, 1993**

[54] **PORTABLE MANUAL KNIFE SHARPENER**

D. 309,415 7/1990 Shimizu ..... D8/63

[75] Inventors: **Daniel D. Friel, Greenville; Samuel Weiner, Wilmington, both of Del.**

D. 331,688 12/1992 Busse ..... D8/63

4,928,436 5/1990 Linden ..... 50/80 BS

[73] Assignee: **Edgecraft Corporation, Avondale, Pa.**

*Primary Examiner*—Nelson C. Holtje  
*Assistant Examiner*—J. H. Musgrove  
*Attorney, Agent, or Firm*—Connolly & Hutz

[\*\*] Term: **14 Years**

[57] **CLAIM**

[21] Appl. No.: **897,345**

The ornamental design for a portable manual knife sharpener, as shown and described.

[22] Filed: **Jun. 11, 1992**

[52] U.S. Cl. .... **D8/63**

[58] Field of Search ..... D8/63, 90-93;  
51/80 BS, 84 BS, 98 BS, 109 BS; 76/82

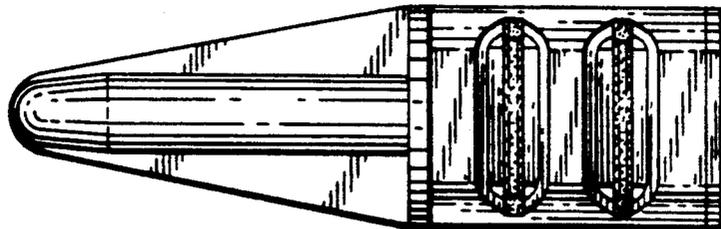
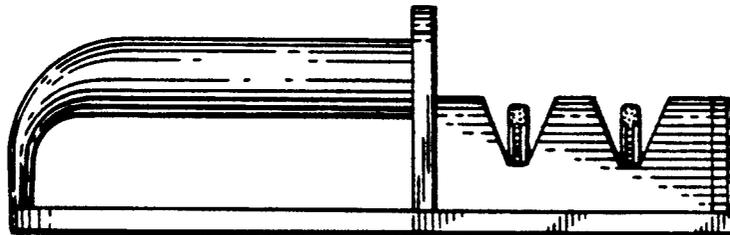
### DESCRIPTION

FIG. 1 is a side elevational view of a portable manual knife sharpener showing our new design with the opposite side being a mirror image;  
FIG. 2 is a top plan view thereof;  
FIG. 3 is a left end elevational view thereof;  
FIG. 4 is a right end elevational view thereof; and,  
FIG. 5 is a bottom plan view thereof.

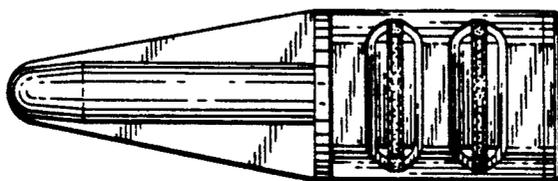
[56] **References Cited**

#### U.S. PATENT DOCUMENTS

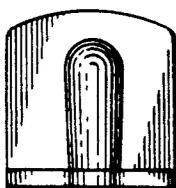
D. 169,539 5/1953 Folli ..... D8/63  
D. 309,414 7/1990 Shimizu ..... D8/63



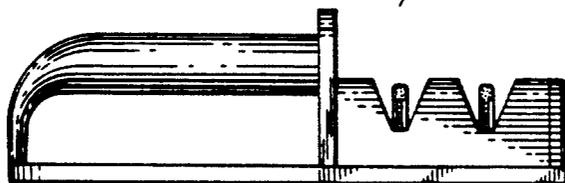
*Fig. 2.*



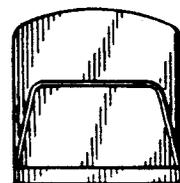
*Fig. 3.*



*Fig. 1.*



*Fig. 4.*



*Fig. 5.*

