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(12) United States Design Patent

Youngren et al.

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(54) **HAMMER**

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(73) Assignee: **Estwing Manufacturing Company**, Rockford, IL (US)

(**) Term: **14 Years**

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Related U.S. Application Data

(60) Continuation-in-part of application No. 29/236,688, filed on Aug. 19, 2005, now Pat. No. Des. 540,646, which is a division of application No. 29/204,735, filed on May 3, 2004, now Pat. No. Des. 521,342.

(51) **LOC (8) Cl.** **08-02**
(52) **U.S. Cl.** **D8/78**
(58) **Field of Classification Search** D8/75, D8/76, 77, 78, 79, 80, 81, 107; 81/19, 20, 81/21, 22; 7/143, 145
See application file for complete search history.

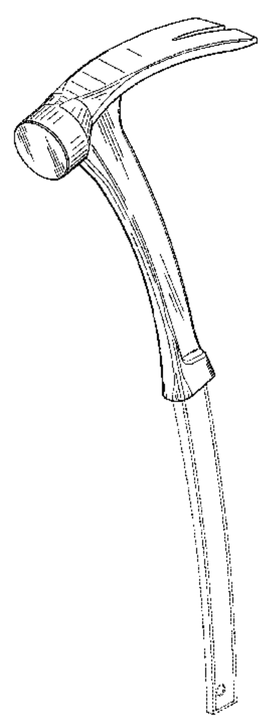
(56) **References Cited**

U.S. PATENT DOCUMENTS

1,934,706	A	11/1933	Green	
D140,407	S	2/1945	Henkel	
D209,653	S	12/1967	Vogel	
3,792,725	A	2/1974	Burgeson	
3,870,091	A	3/1975	Burgeson	
3,874,433	A	4/1975	Shepherd, Jr. et al.	
D237,582	S	11/1975	Mostyn et al.	
4,030,847	A	6/1977	Carmien	
4,038,719	A	8/1977	Bennett	
4,154,273	A	5/1979	Pollak	
D262,186	S	12/1981	Royce	
4,363,344	A	12/1982	Pollak	
4,639,029	A	1/1987	Kolonia	
D288,406	S	2/1987	Santos	
D291,402	S	8/1987	Square	
D300,111	S	3/1989	Square	
5,123,303	A	6/1992	Lee et al.	
5,259,274	A	11/1993	Hreha	
5,425,176	A	6/1995	Brainerd et al.	
5,588,343	A	12/1996	Rust et al.	
5,657,674	A	8/1997	Burnett	
5,768,956	A	6/1998	Coonrad	
5,860,334	A	1/1999	Coonrad	
D408,702	S	4/1999	Hammond et al.	
5,906,144	A	5/1999	Staviski et al.	
D416,462	S	11/1999	Pringle et al.	
5,988,019	A	11/1999	Coonrad	
5,996,235	A	12/1999	Brainerd	
6,016,722	A	1/2000	Gierer et al.	
D420,881	S	2/2000	Davis et al.	
D426,128	S	6/2000	Lamond et al.	
6,128,977	A	10/2000	Gierer et al.	
6,131,488	A	10/2000	Coonrad	
D436,821	S	1/2001	Douglas et al.	
D439,448	S *	3/2001	DeJule	D6/495
6,202,511	B1	3/2001	Murray et al.	
D442,048	S	5/2001	Coonrad	
6,250,181	B1	6/2001	Coonrad	
D449,770	S	10/2001	Chen	
D455,626	S *	4/2002	Chen	D8/78
6,370,986	B1	4/2002	Scott	
6,405,616	B1	6/2002	Chen	
D459,968	S	7/2002	Harkins et al.	
6,435,059	B1	8/2002	Martinez	
6,460,430	B2	10/2002	Coonrad	
D478,264	S	8/2003	Chen	
D478,265	S	8/2003	Chen	
D478,266	S	8/2003	Chen	
6,647,829	B1	11/2003	Youngren et al.	
D503,605	S *	4/2005	Hung	D8/78
D505,609	S *	5/2005	Hung	D8/79
6,976,406	B2	12/2005	Youngren et al.	
D528,890	S *	9/2006	Chen	D8/78
D536,592	S *	2/2007	Chen	D8/78
2001/0029813	A1	10/2001	Schroeder	

OTHER PUBLICATIONS

Chaffin et al., Eds., "Hand-Tool Design Guidelines," in: *Occupational Biomechanics*, Ch. 11, pp. 435-461, 3rd Edition, John Wiley & Sons, Inc. (New York, 1999).
Harkins et al., U.S. Appl. No. 29/159,356, filed Apr. 18, 2002.
Harkins et al., U.S. Appl. No. 29/159,383, filed Apr. 19, 2002.



Knowlton et al., "Ulnar Deviation and Short-Term Strength Reductions as Affected by a Curve-Handled Ripping Hammer and a Conventional Claw Hammer," *Ergonomics*, 26 (2), 173-179 (1983).
Konz, "Bent Hammer Handles," *Human Factors*, 28 (3), 317-323 (1986).
"Ridgid Robohammer®," in *Woodworking Tools for a Lifetime*, Web page: http://www.ridgidwoodworking.com/products_robohammer.phtml (1998-2002).

* cited by examiner

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(74) *Attorney, Agent, or Firm*—Drinker Biddle & Reath LLP

(57) **CLAIM**

The ornamental design for a hammer, as shown and described.

DESCRIPTION

FIG. **1** is a front perspective view of a first embodiment of a hammer showing my new design;

FIG. **2** is a rear perspective view of the first embodiment of the hammer;

FIG. **3** is a front elevation view of the first embodiment of the hammer;

FIG. **4** is a rear elevation view of the first embodiment of the hammer;

FIG. **5** is a right side elevation view of the first embodiment of the hammer, the left side elevation being a mirror image thereof;

FIG. **6** is a top plan view of the first embodiment of the hammer;

FIG. **7** is a bottom plan view of the first embodiment of the hammer;

FIG. **8** is a front perspective view of the first embodiment of the hammer, wherein the broken line showing of the hammer grip is for illustrative purposes only and forms no part of the claimed embodiment;

FIG. **9** is a front perspective view of a second embodiment of the hammer;

FIG. **10** is a rear perspective view of the second embodiment of the hammer;

FIG. **11** is a front elevation view of the second embodiment of the hammer;

FIG. **12** is a rear elevation view of the second embodiment of the hammer;

FIG. **13** is a right side elevation view of the second embodiment of the hammer, the left side elevation being a mirror image thereof;

FIG. **14** is a top plan view of the second embodiment of the hammer;

FIG. **15** is a bottom plan view of the second embodiment of the hammer; and,

FIG. **16** is a front perspective view of the second embodiment of the hammer, wherein the broken line showing of the hammer grip is for illustrative purposes only and forms no part of the claimed embodiment. The broken lines immediately adjacent the shaded areas represent the bounds of the respective claimed design embodiments while all other broken lines are directed to environment and are for illustrative purposes only; the broken lines form no part of the respective claimed design embodiments.

1 Claim, 10 Drawing Sheets

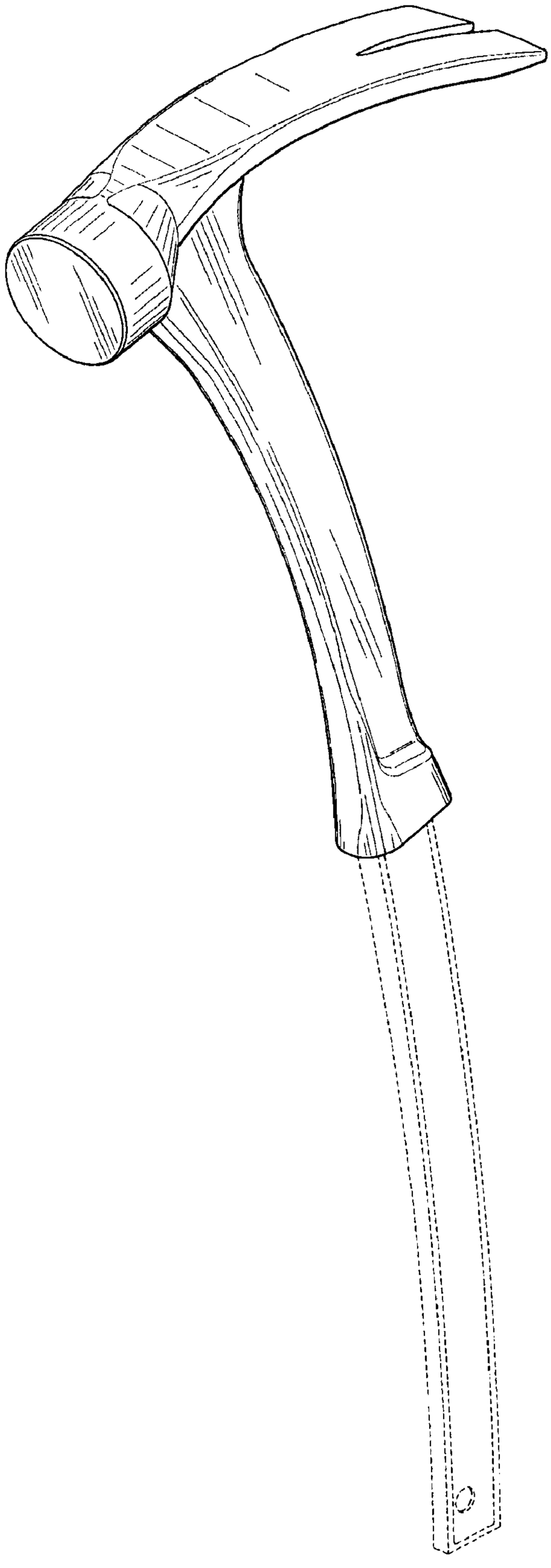


FIG.1

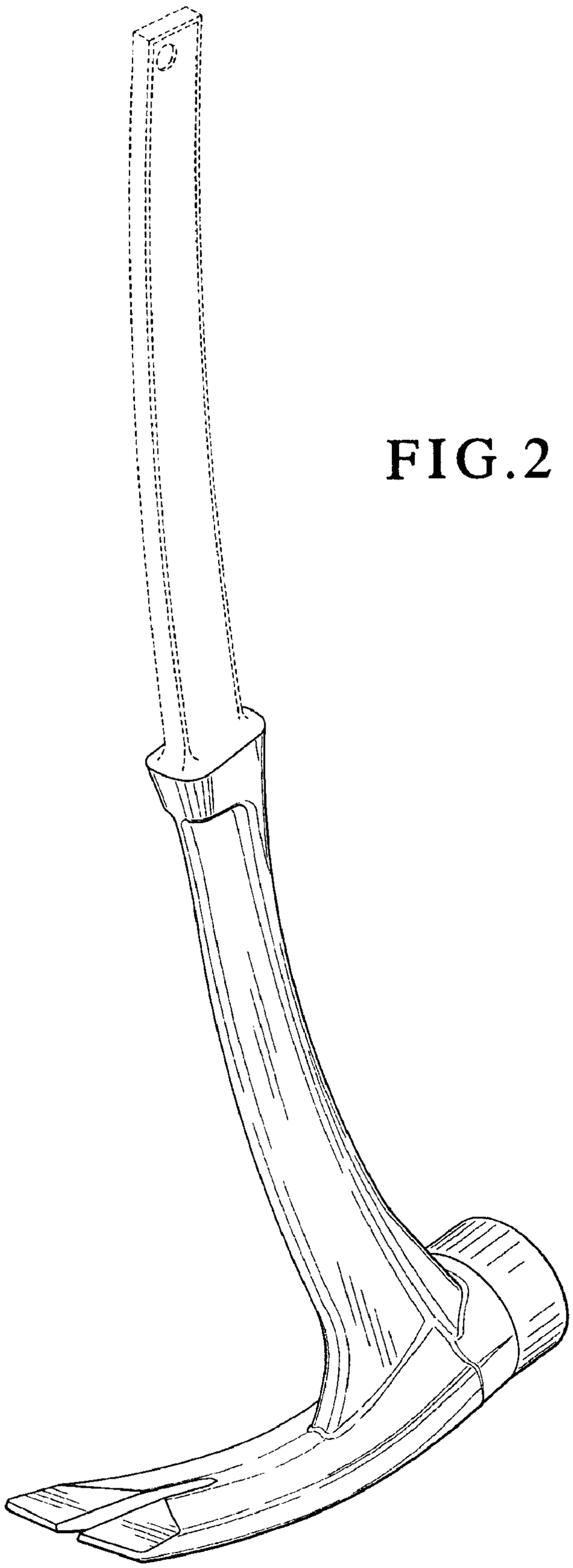


FIG.2

FIG.3

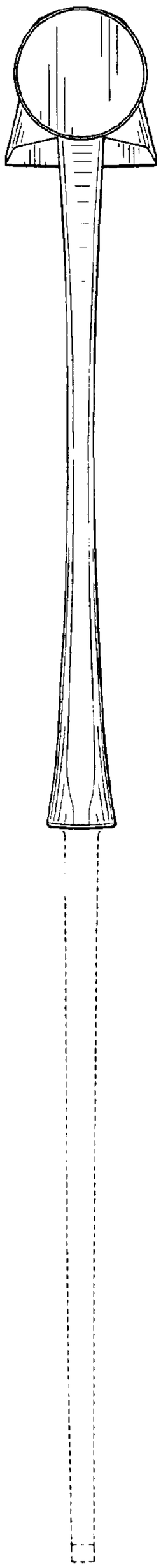


FIG.4

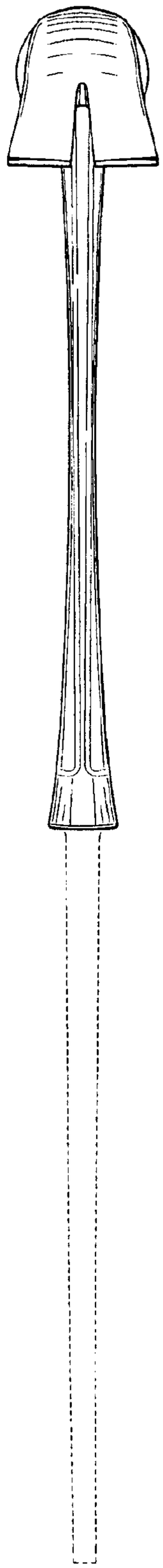


FIG.5

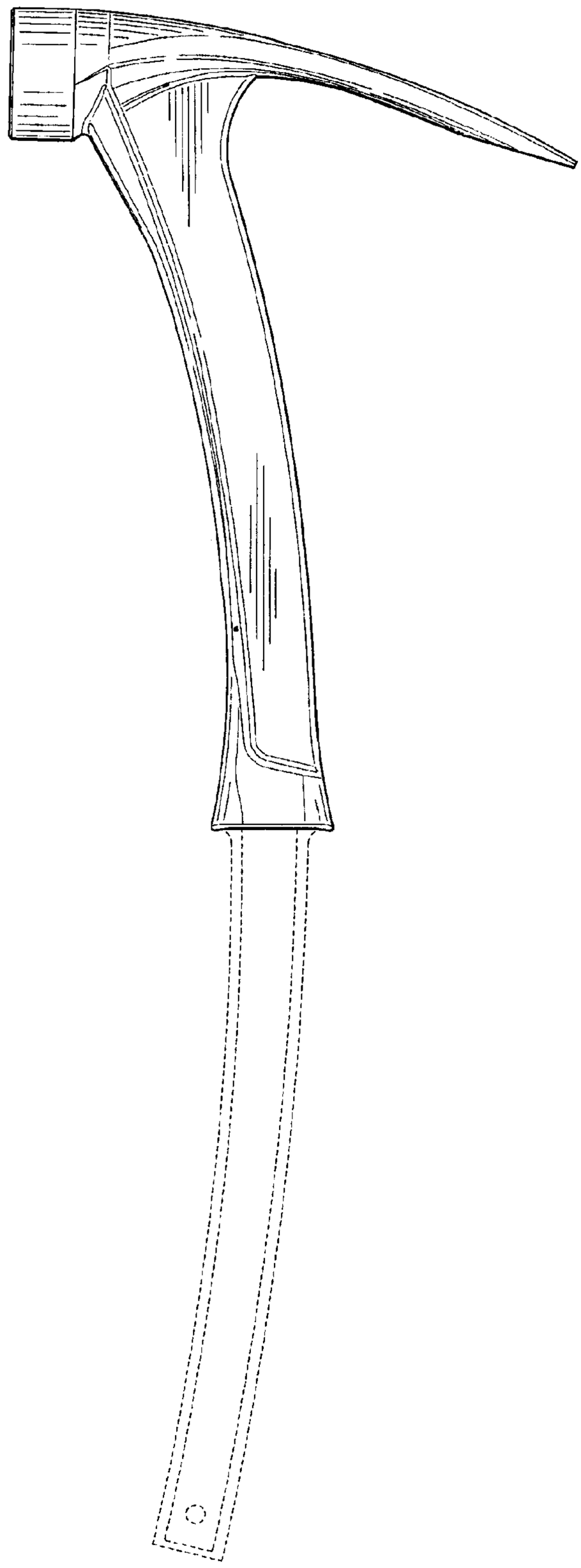


FIG.6

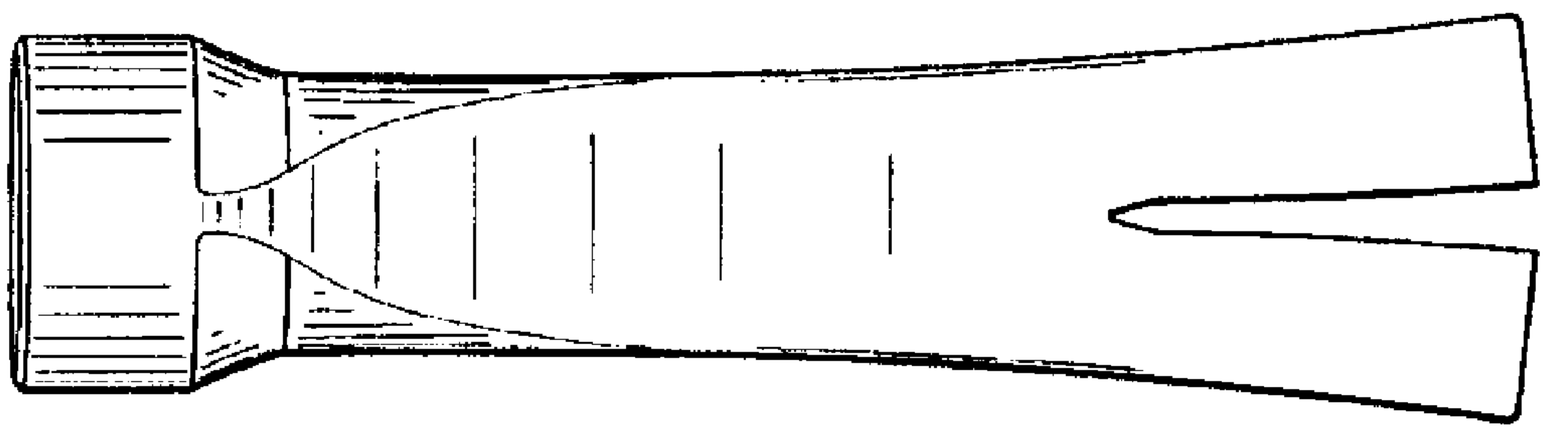
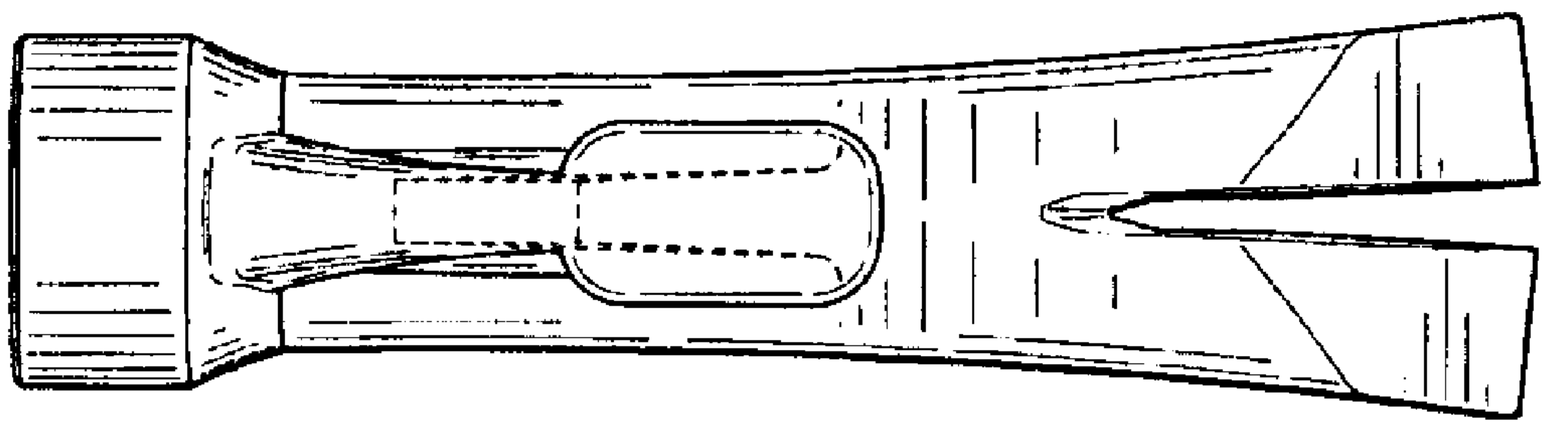


FIG.7



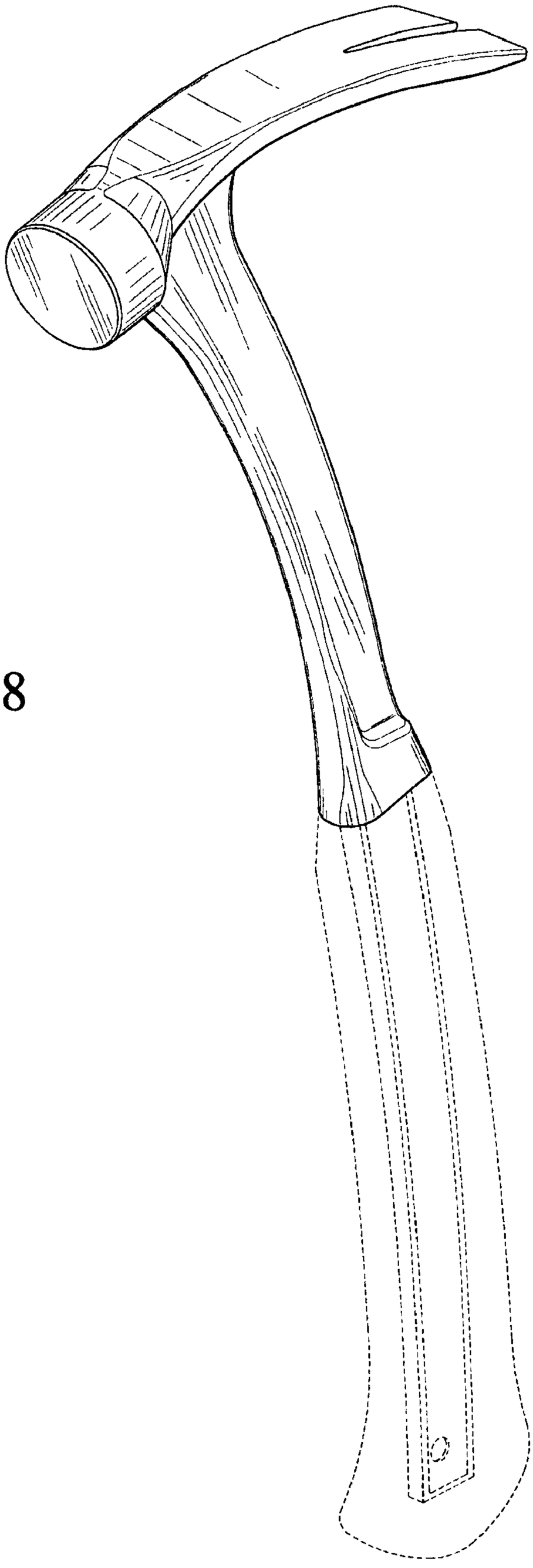


FIG.8

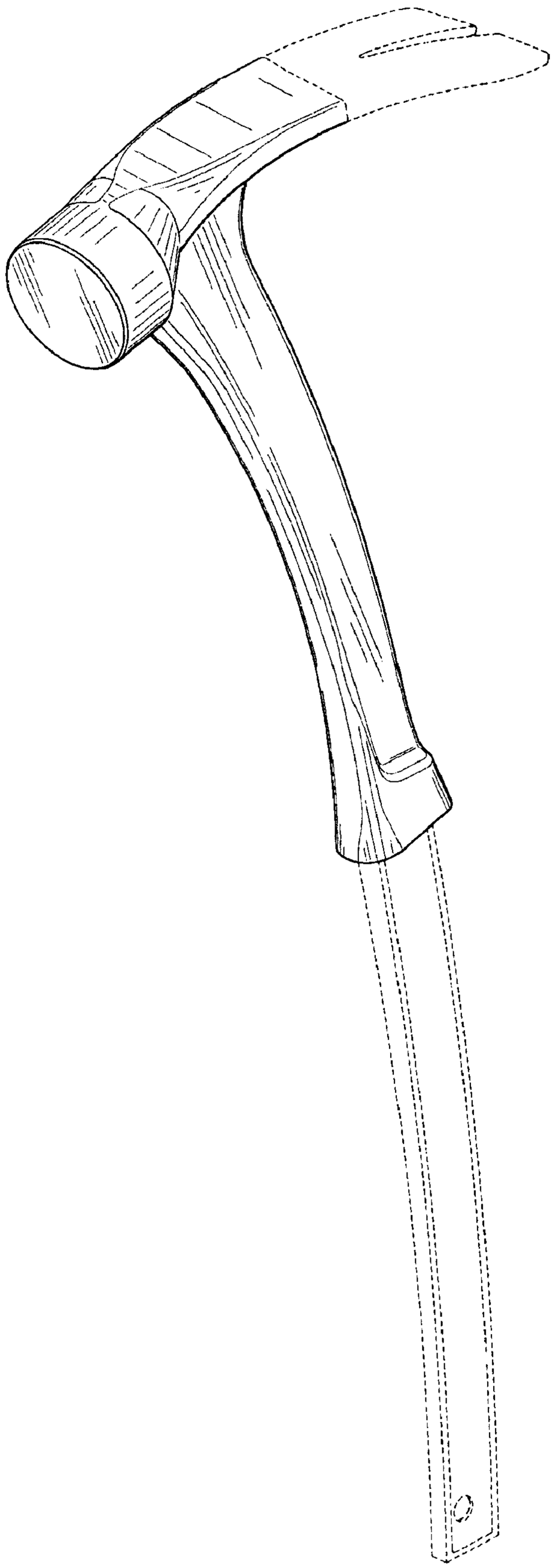


FIG.9

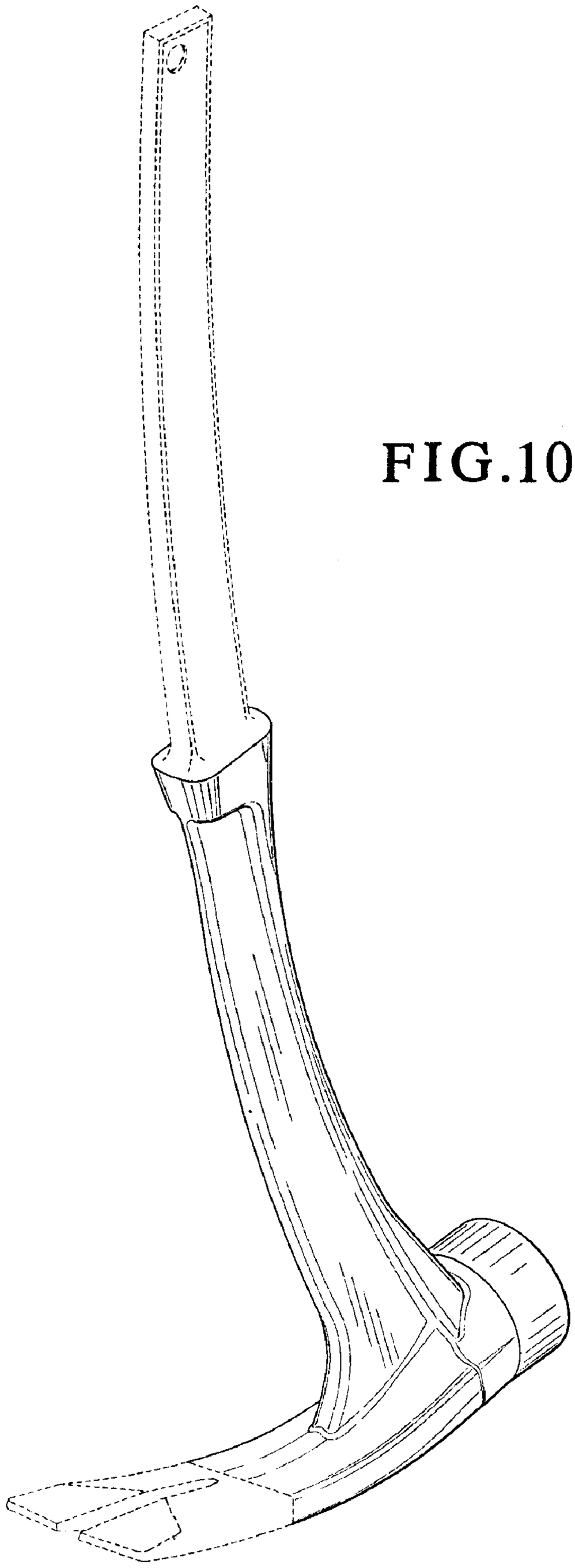


FIG.10

FIG.11

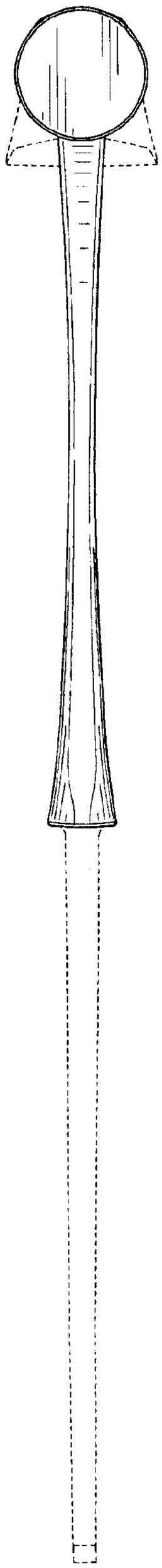


FIG.12

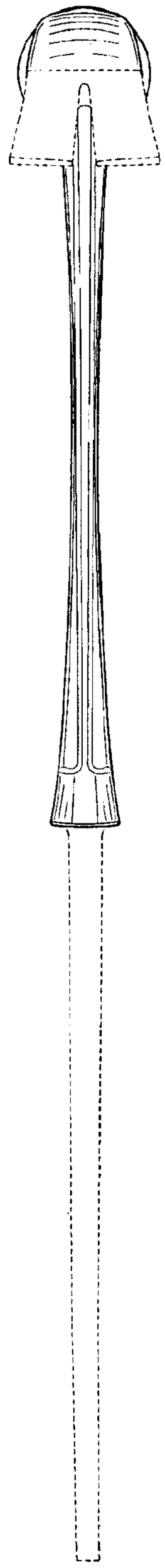


FIG.13

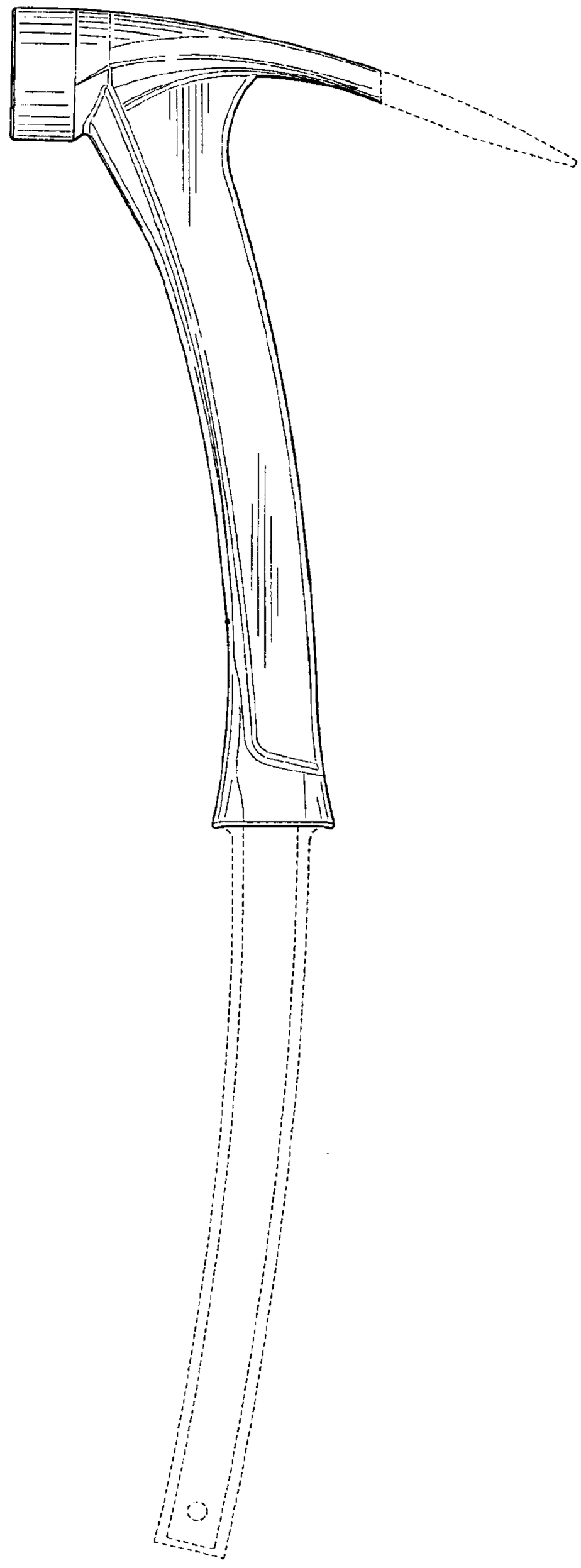


FIG.14

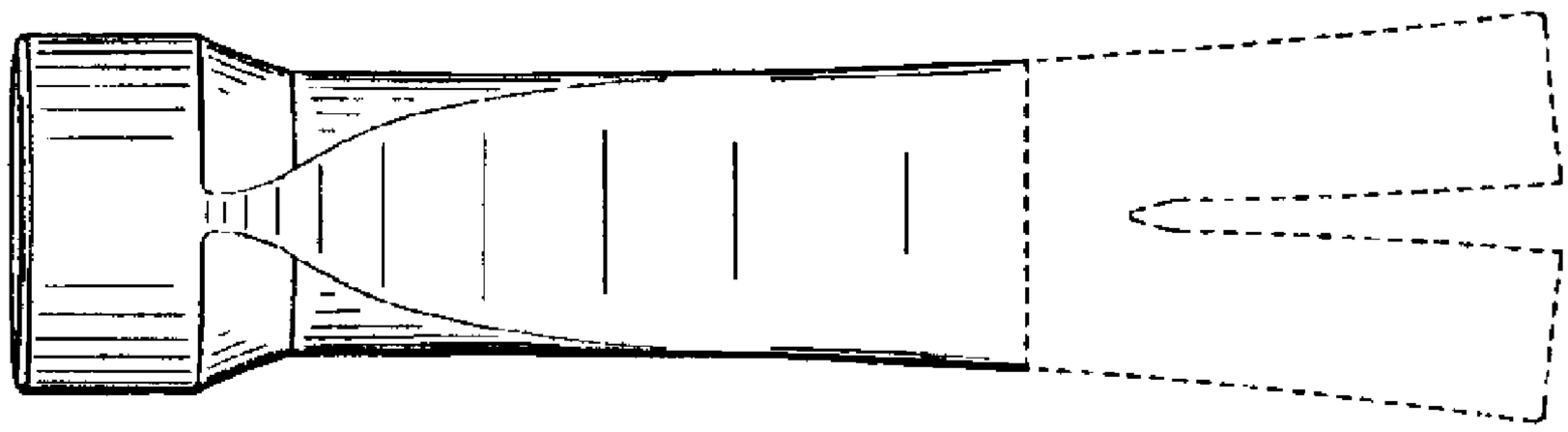
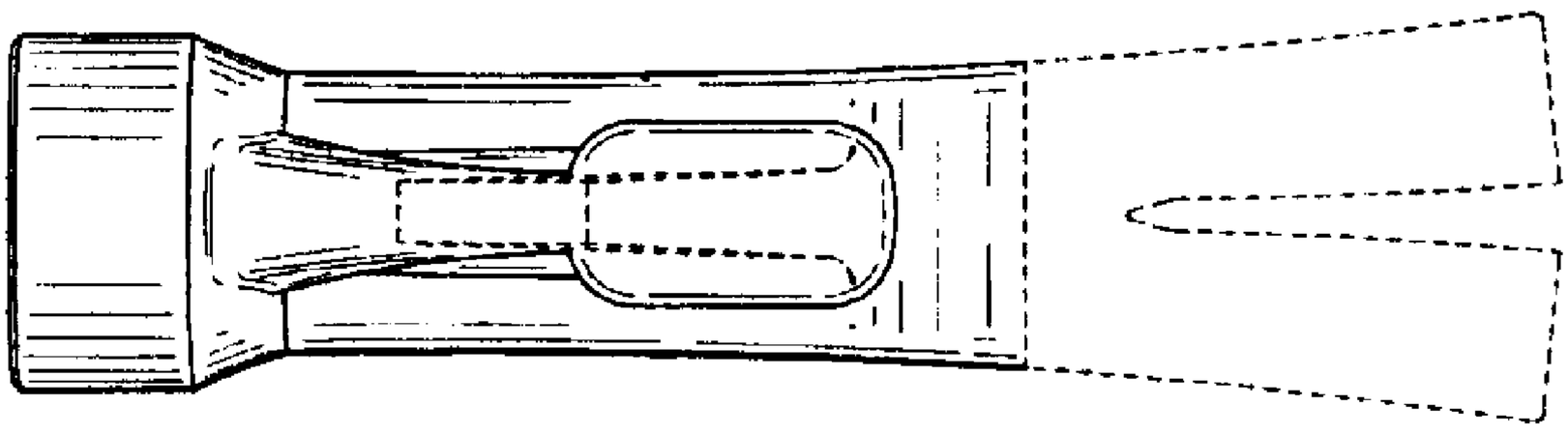


FIG.15



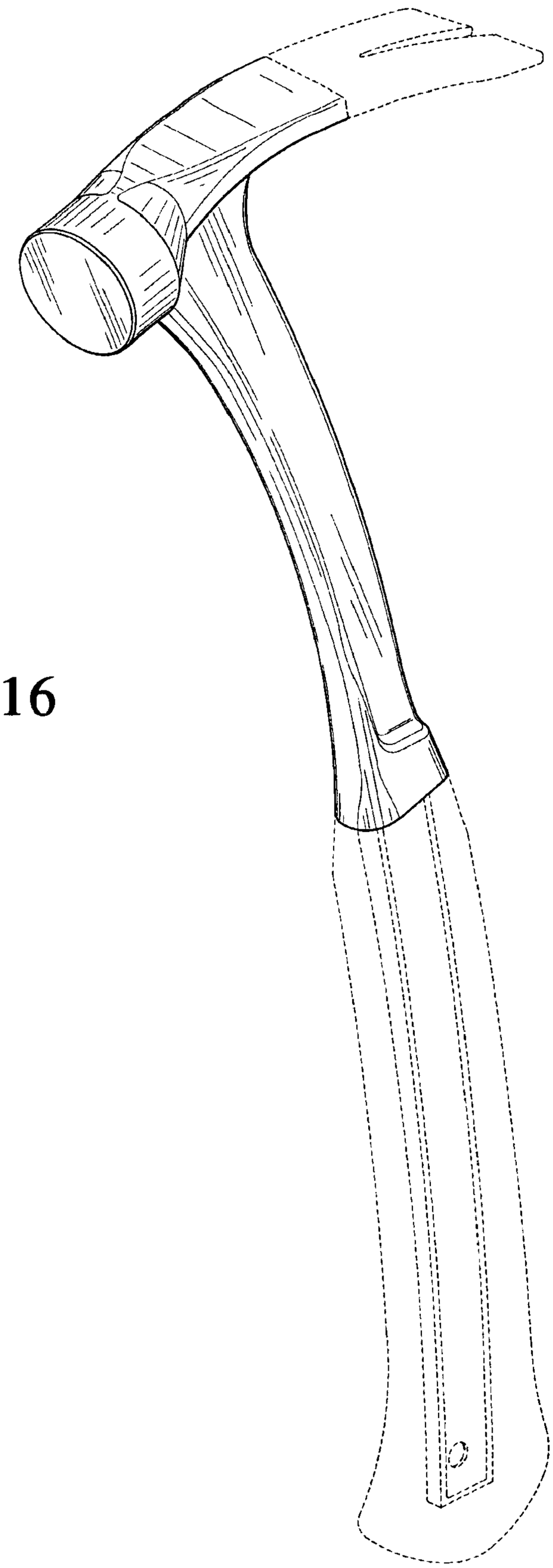


FIG.16