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(12) **United States Design Patent**  
**Min et al.**

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(45) **Date of Patent:** **\*\* Dec. 15, 2020**

(54) **GROOVING INSERT FOR MACHINE TOOLS**

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**Young Heum Kim**, Cheongju-si (KR);  
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(\*\*) Term: **15 Years**

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(30) **Foreign Application Priority Data**

Feb. 26, 2019 (KR) ..... 30-2019-0008601

(51) **LOC (12) Cl.** ..... **15-09**

(52) **U.S. Cl.**  
USPC ..... **D15/139**

(58) **Field of Classification Search**

USPC ..... D15/139  
CPC . B23B 27/045; B23B 27/16; B23B 2220/126;  
B23B 29/043; B23B 2200/162; B23B  
2200/201; Y10T 407/235; Y10T 407/245;  
Y10T 407/23; Y10T 407/24  
See application file for complete search history.

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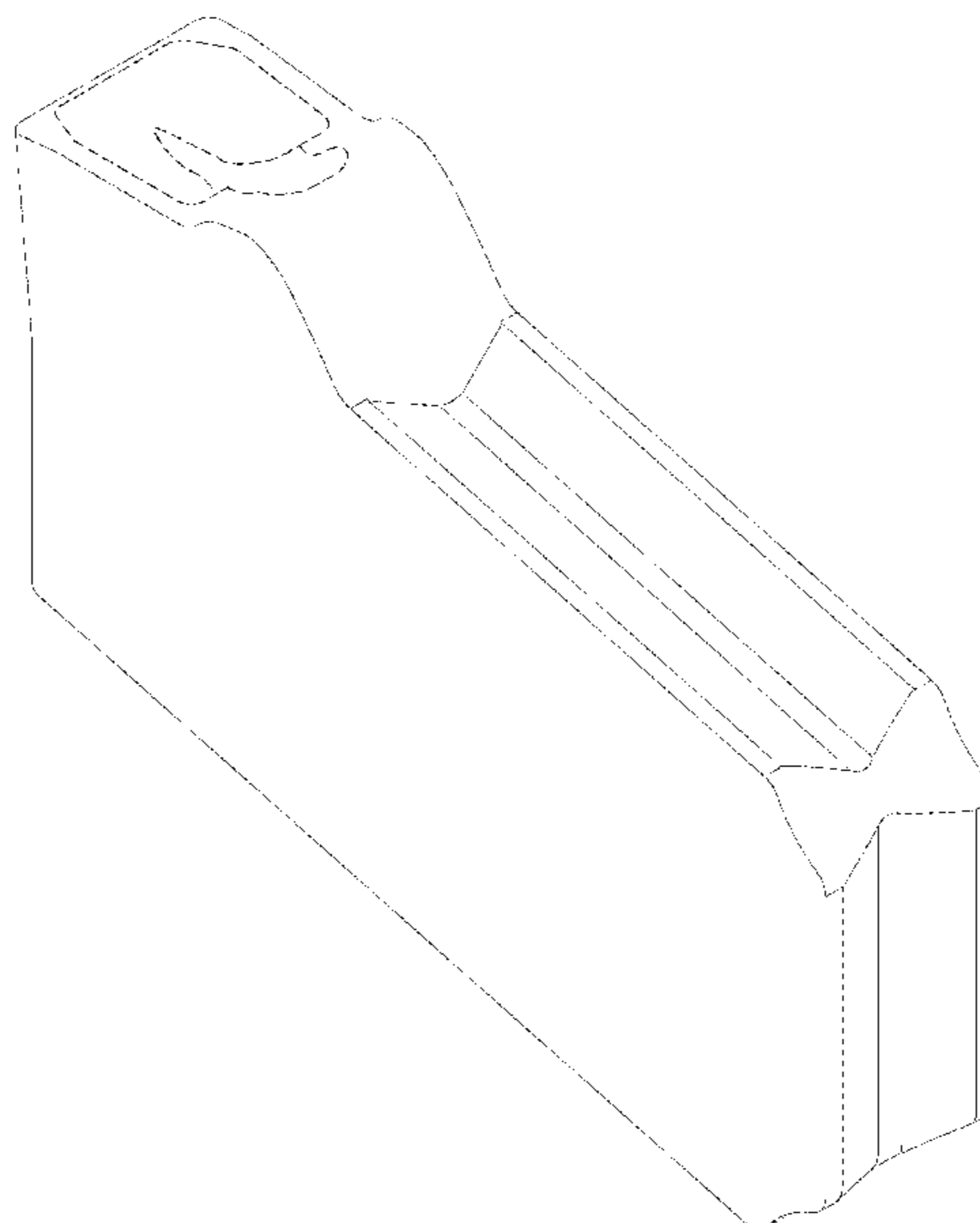
(57) **CLAIM**

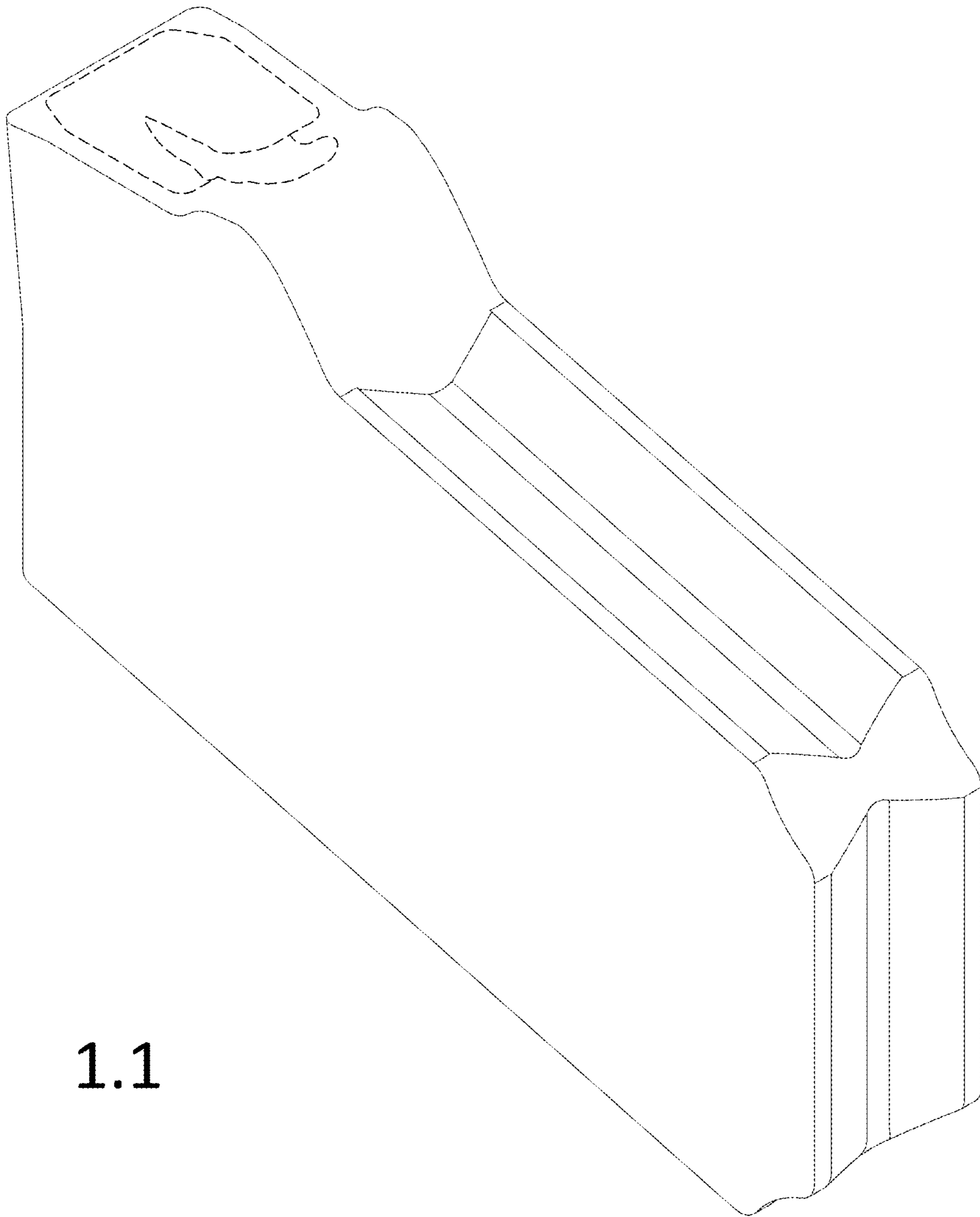
The ornamental design for grooving insert for machine tools, as shown and described.

**DESCRIPTION**

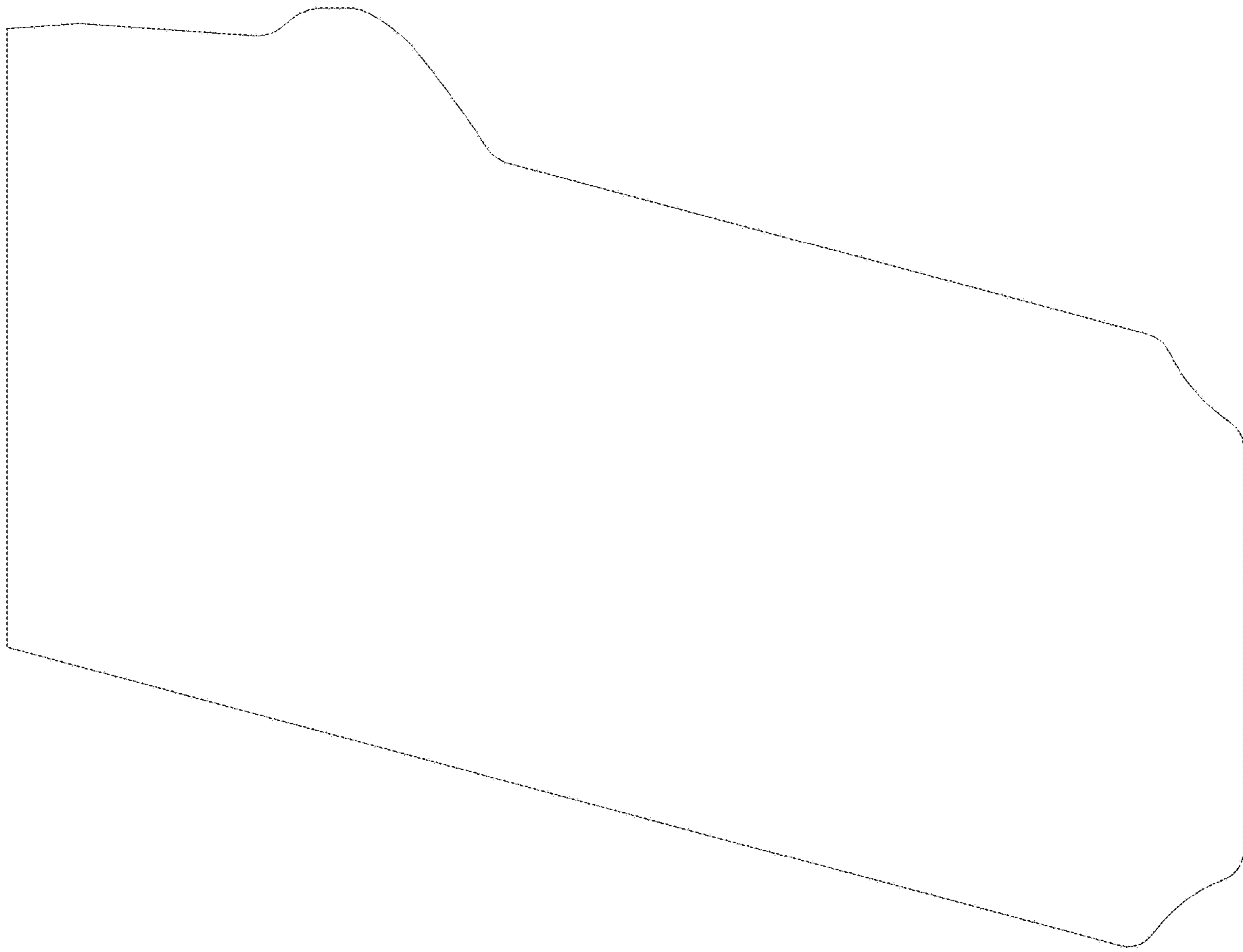
**1.1** is a perspective view of grooving insert for machine tools showing my new design;  
**1.2** is a front view thereof;  
**1.3** is a back view thereof;  
**1.4** is a top view thereof;  
**1.5** is a bottom view thereof;  
**1.6** is a left view thereof; and  
**1.7** is a right view thereof.  
The broken lines in the figures depict portions of the grooving insert which form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**

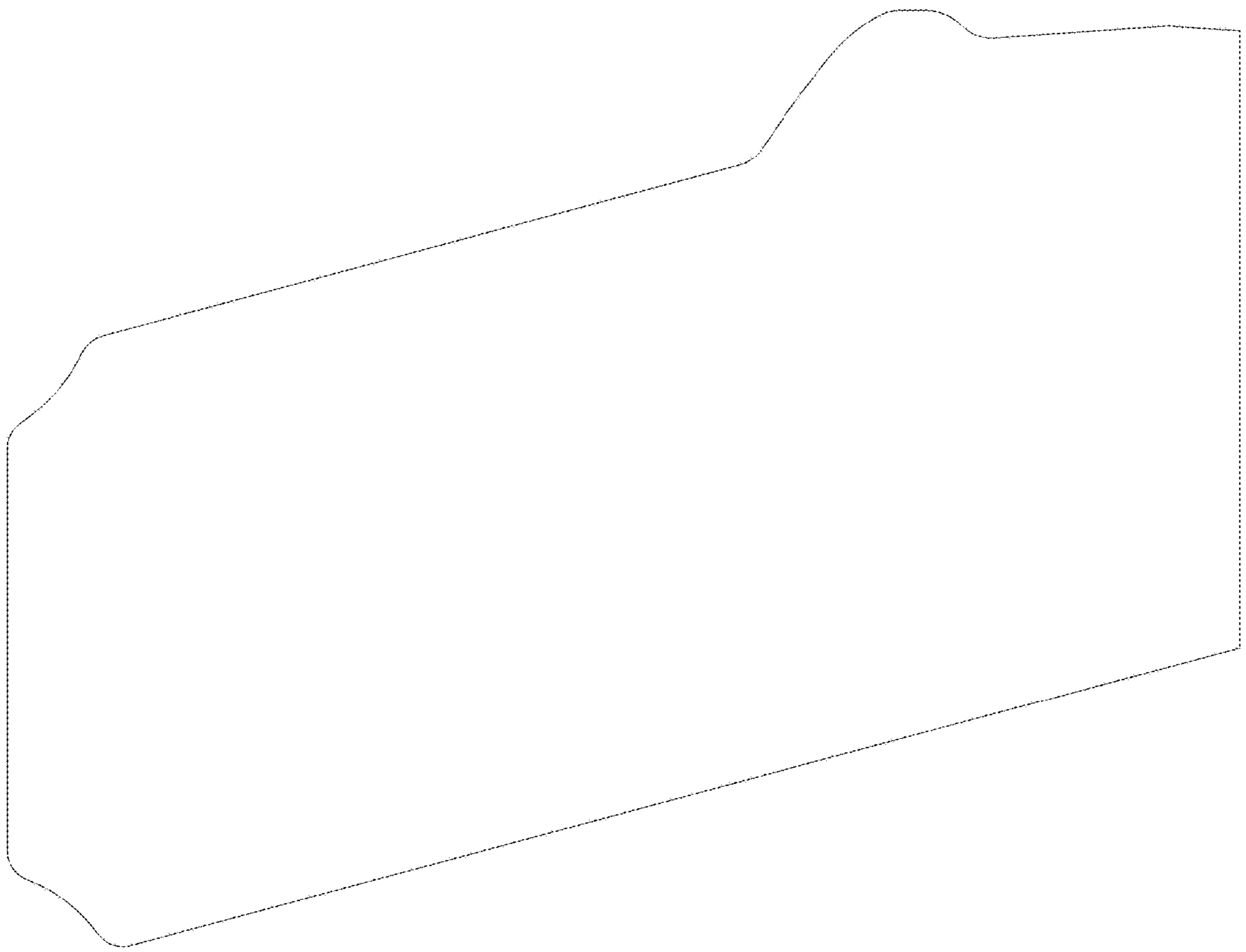




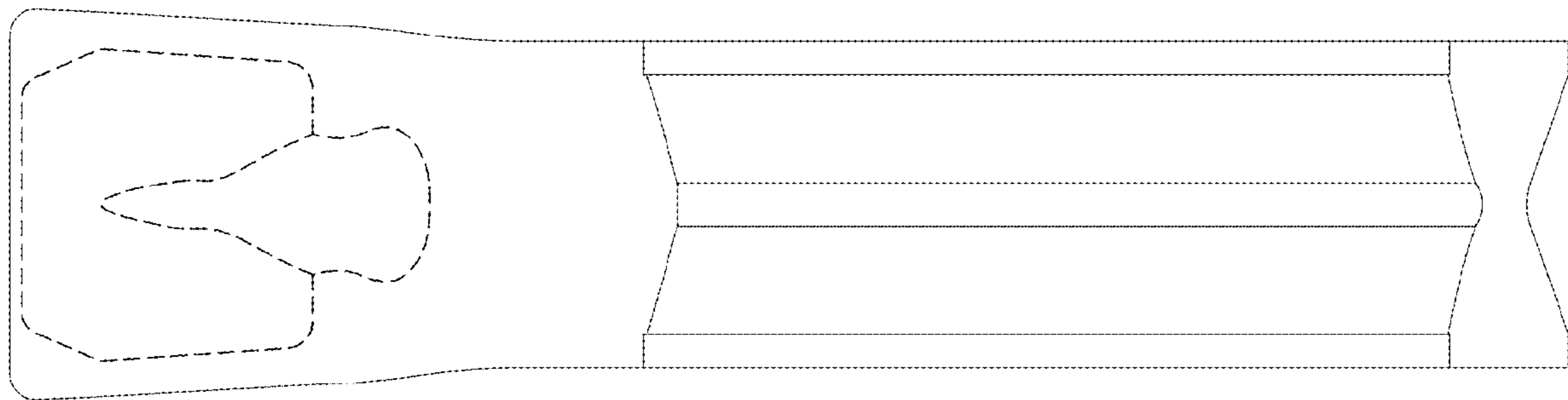
1.1



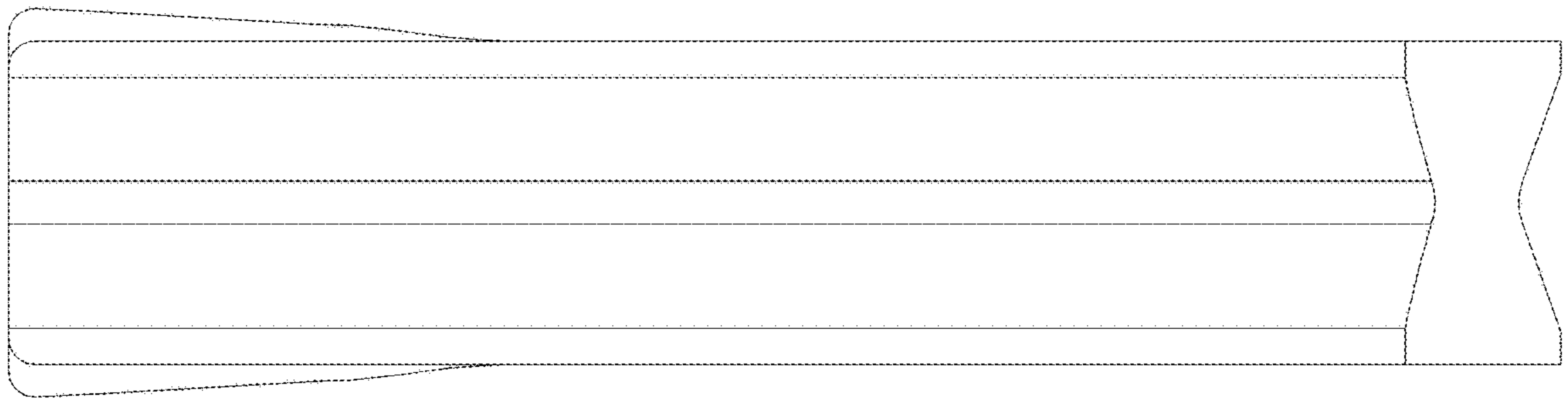
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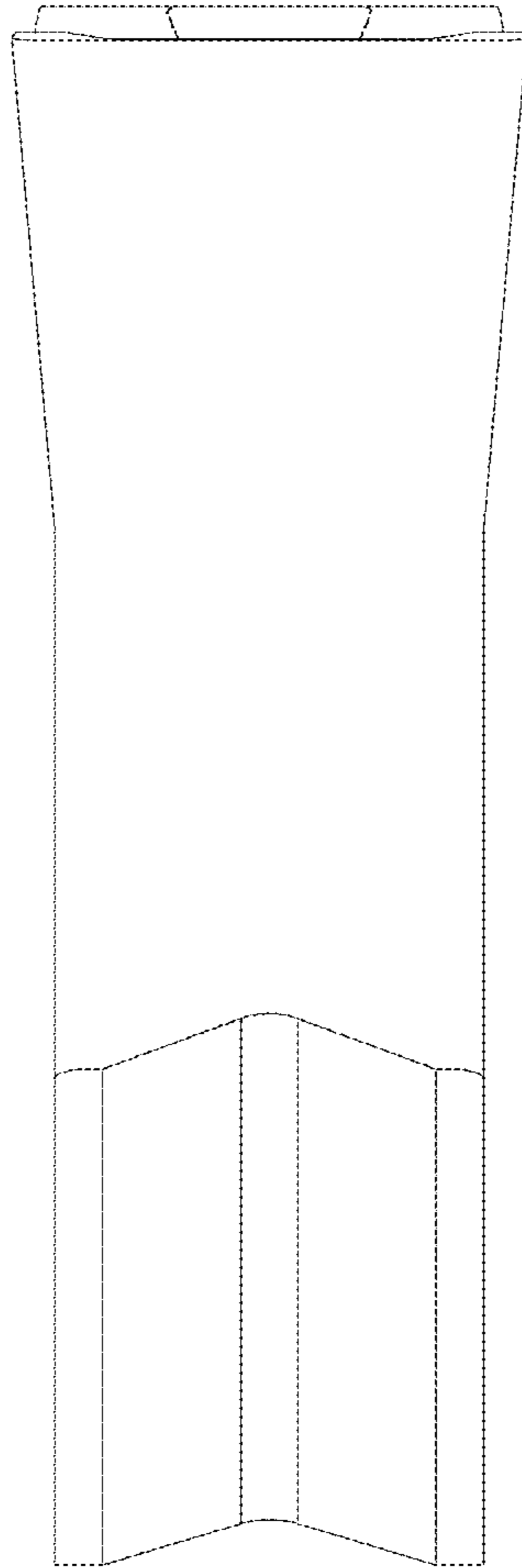
1.3



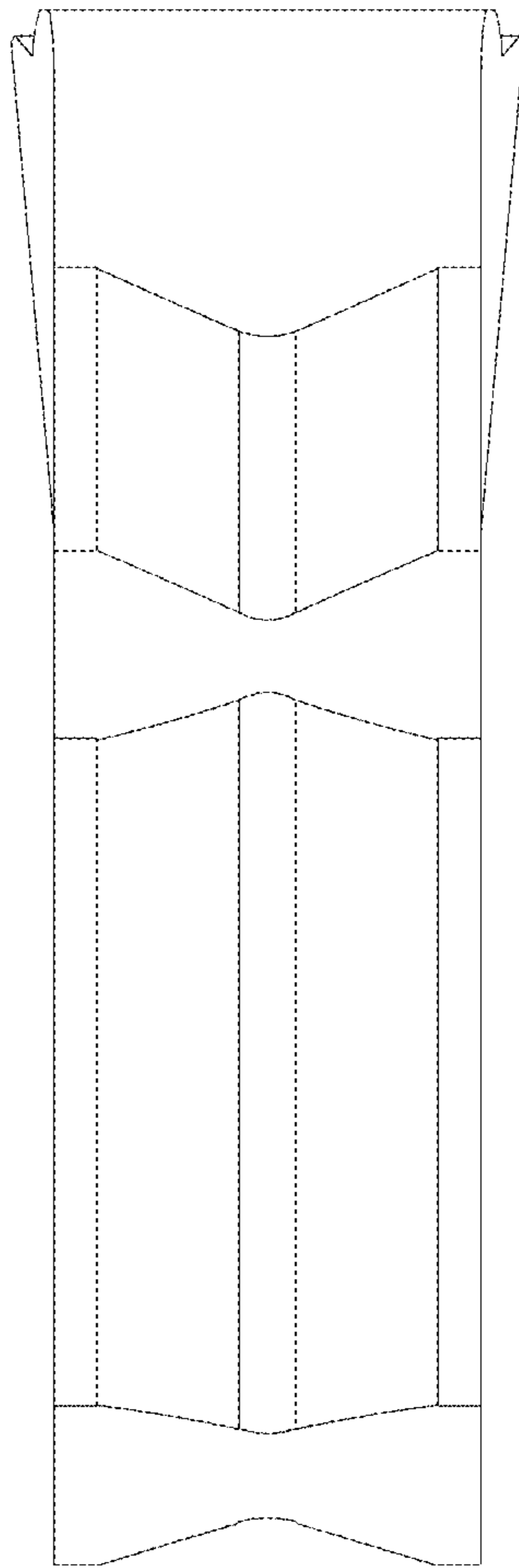
1.4



1.5



1.6



1.7