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United States Design Patent

Ho et al.

(10)

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(45)

Date of Patent:

** Sep. 23, 2025

(54) MT FERRULE

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Hudson, MA (US)

(**) Term: 15 Years

(21) Appl. No.: 29/908,488

(22) Filed: Jan. 12, 2024

(30) Foreign Application Priority Data

Jul. 14, 2023 (CN) 202330443198.0

(51) LOC (15) Cl. 13-03

(52) U.S. Cl.
USPC D13/147

(58) Field of Classification Search
USPC D13/133, 146, 147, 154, 158, 184, 199;
D14/432, 433

(Continued)

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(Continued)

Primary Examiner — George D. Kirschbaum
Assistant Examiner — Denis Houyoux

(57) CLAIM

The ornamental design for an MT ferrule, as shown and
described.

DESCRIPTION

FIG. 1 is a perspective view of an MT ferrule showing our
new design;
FIG. 2 is another perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left view thereof;
FIG. 6 is a right view thereof;
FIG. 7 is a top view thereof;
FIG. 8 is a bottom view thereof; and
FIG. 9 is a partial cross-sectional view taken along line A-A
of the front view thereof.
FIG. 10 is a perspective view of a second embodiment of an
MT ferrule showing our new design;
FIG. 11 is another perspective view thereof;
FIG. 12 is a front view thereof;
FIG. 13 is a rear view thereof;
FIG. 14 is a left view thereof;
FIG. 15 is a right view thereof;
FIG. 16 is a top view thereof;
FIG. 17 is a bottom view thereof;
FIG. 18 is a partial cross-sectional view taken along line B-B
of the front view thereof;
FIG. 19 is a perspective view of a third embodiment of an
MT ferrule showing our new design;
FIG. 20 is another perspective view thereof;
FIG. 21 is a front view thereof;
FIG. 22 is a rear view thereof;
FIG. 23 is a left view thereof;

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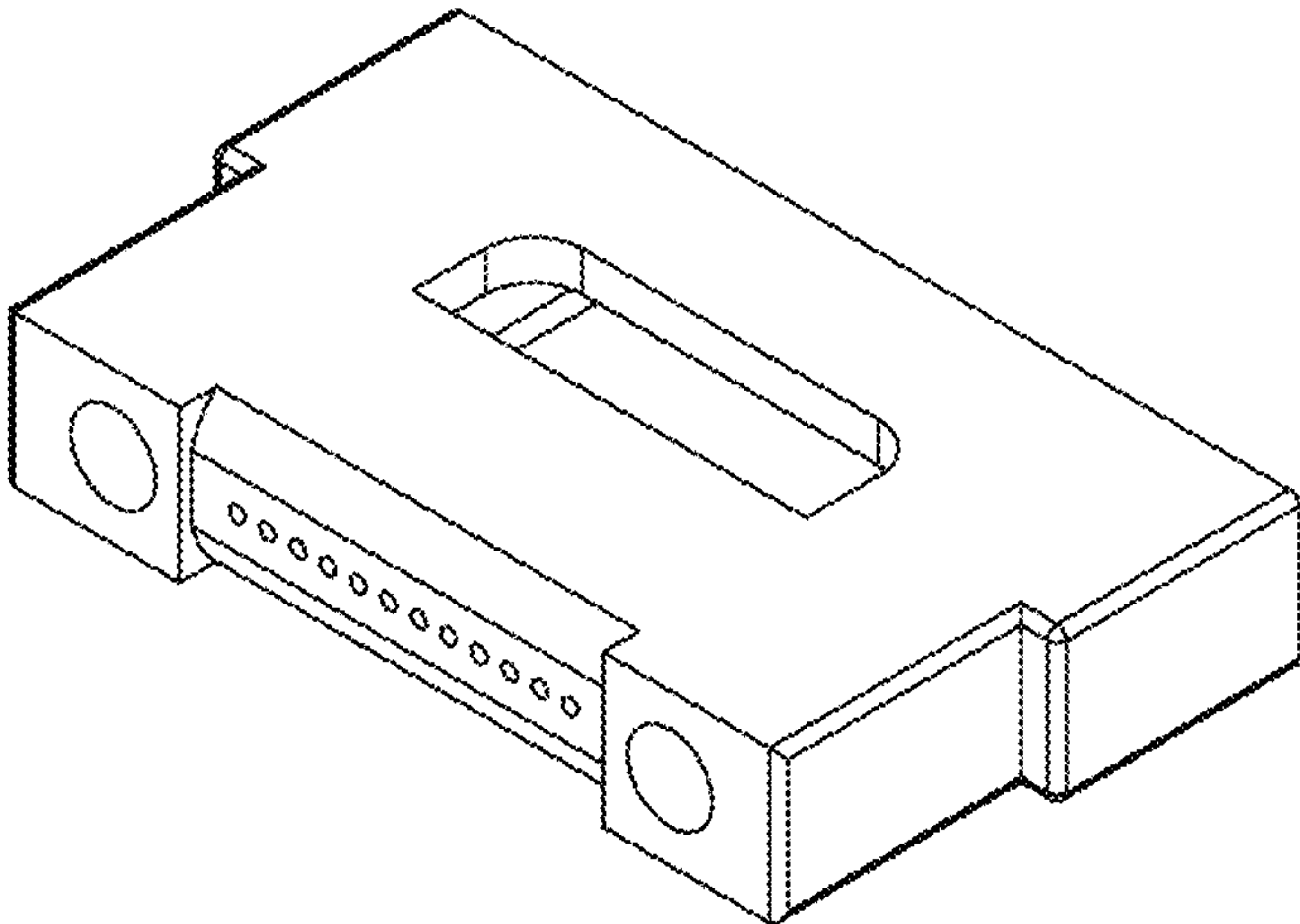


FIG. 24 is a right view thereof;
FIG. 25 is a top view thereof;
FIG. 26 is a bottom view thereof;
FIG. 27 is a partial cross-sectional view taken along line C-C of the front view thereof;
FIG. 28 is a perspective view of a fourth embodiment of an MT ferrule showing our new design;
FIG. 29 is another perspective view thereof;
FIG. 30 is a front view thereof;
FIG. 31 is a rear view thereof;
FIG. 32 is a left view thereof;
FIG. 33 is a right view thereof;
FIG. 34 is a top view thereof;
FIG. 35 is a bottom view thereof;
FIG. 36 is a partial cross-sectional view taken along line D-D of the front view thereof;
FIG. 37 is a perspective view of a fifth embodiment of an MT ferrule showing our new design;
FIG. 38 is another perspective view thereof;
FIG. 39 is a front view thereof;
FIG. 40 is a rear view thereof;
FIG. 41 is a left view thereof;
FIG. 42 is a right view thereof;
FIG. 43 is a top view thereof;
FIG. 44 is a bottom view thereof;
FIG. 45 is a partial cross-sectional view taken along line E-E of the front view thereof;
FIG. 46 is a perspective view of a sixth embodiment of an MT ferrule showing our new design;
FIG. 47 is another perspective view thereof;
FIG. 48 is a front view thereof;
FIG. 49 is a rear view thereof;
FIG. 50 is a left view thereof;
FIG. 51 is a right view thereof;
FIG. 52 is a top view thereof;
FIG. 53 is a bottom view thereof; and,
FIG. 54 is a partial cross-sectional view taken along line F-F of the front view thereof.

1 Claim, 18 Drawing Sheets

(58) **Field of Classification Search**
CPC G02B 6/40; G02B 6/3885; G02B 6/36;
G02B 6/3861; G02B 6/3825; G02B
6/3882; G02B 6/3893; G02B 6/3831;
G02B 6/403; G02B 6/381; G02B 6/3636;
G02B 6/3818; G02B 6/3853; G02B 6/30;
G02B 6/32; G02B 6/4292; G02B 6/4214;
G02B 6/4249; G02B 6/3652; G02B
6/3829; G02B 6/3849; G02B 6/3883;
G02B 6/3887; G02B 6/3879; G02B 7/02
See application file for complete search history.

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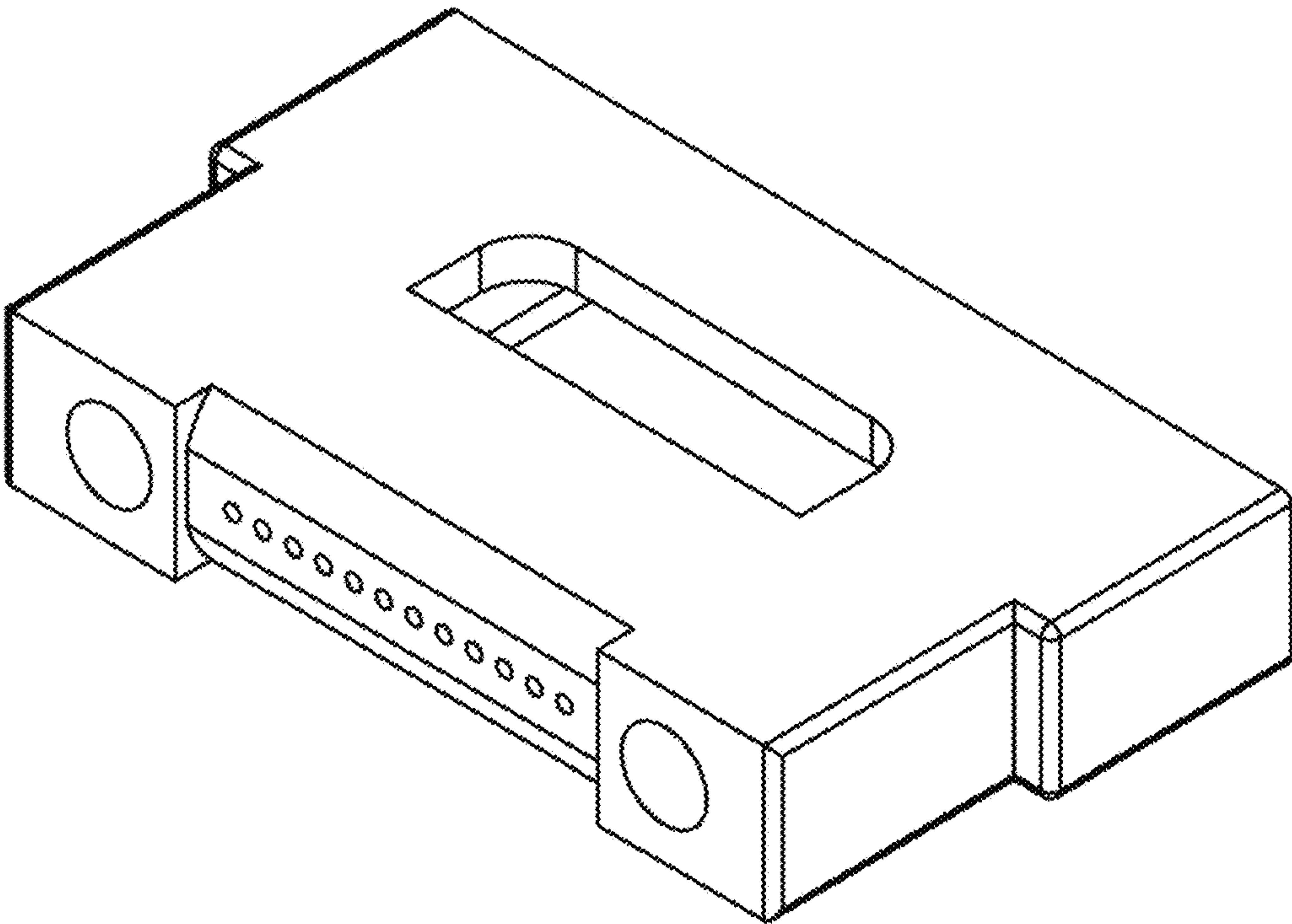


FIG. 1

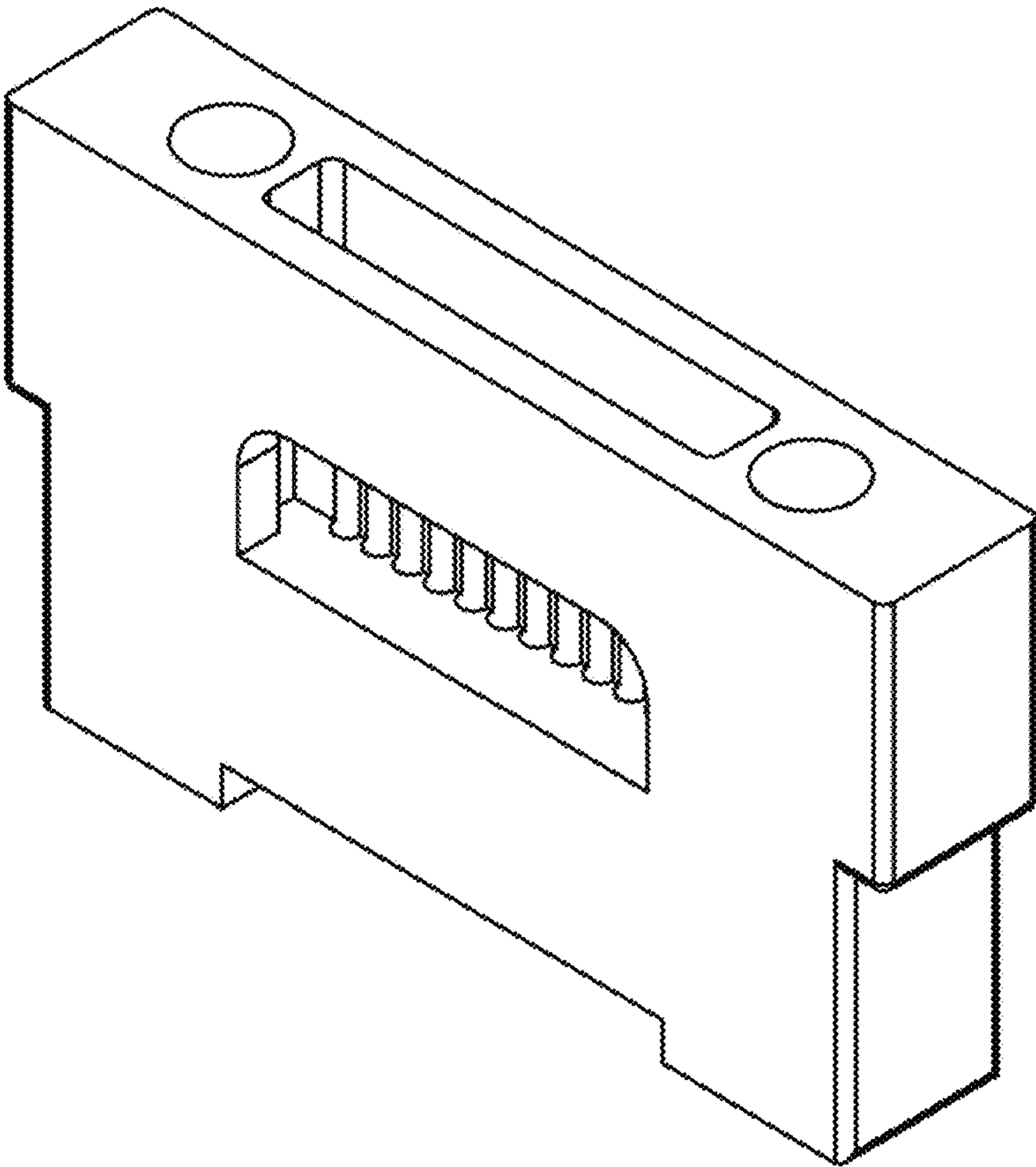


FIG. 2

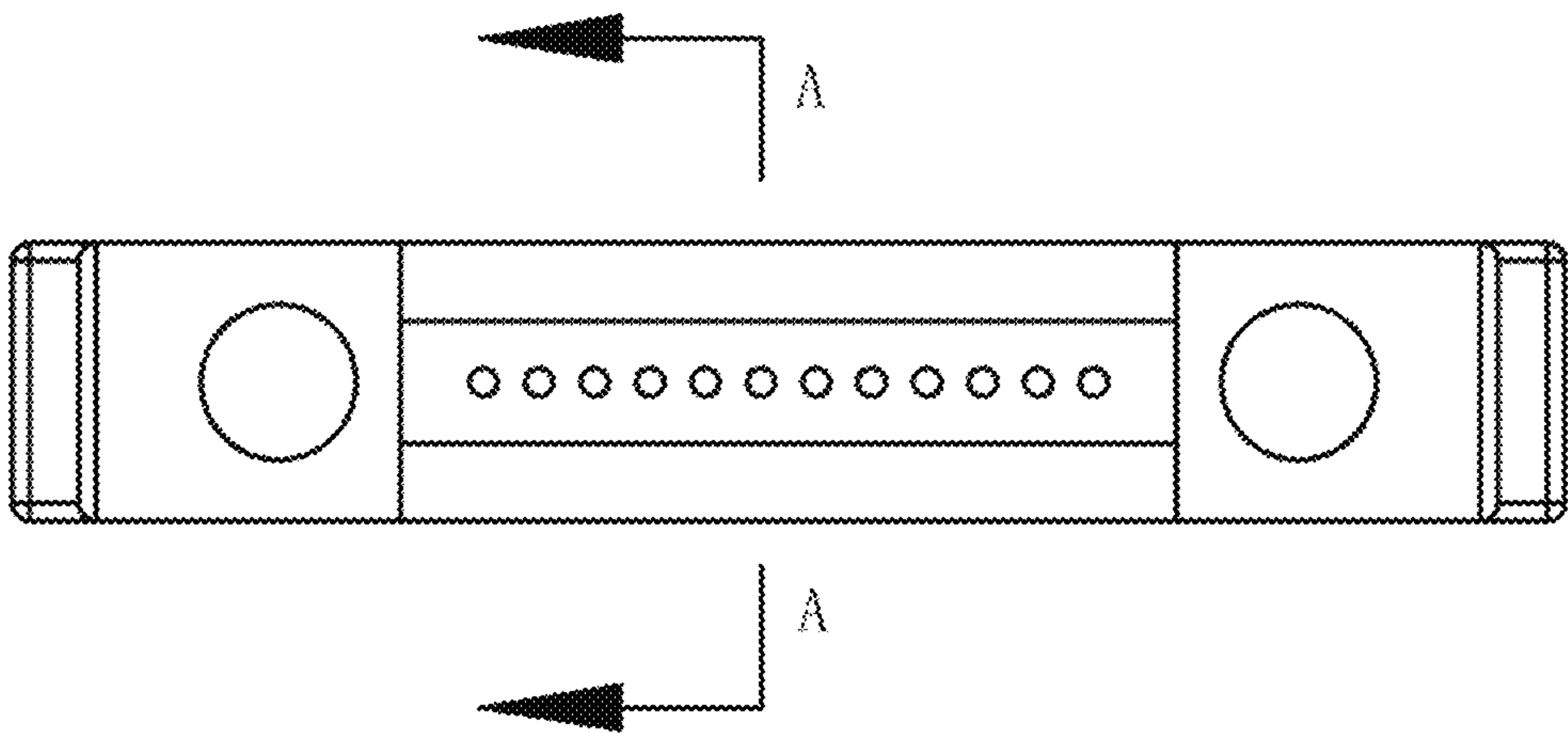


FIG. 3

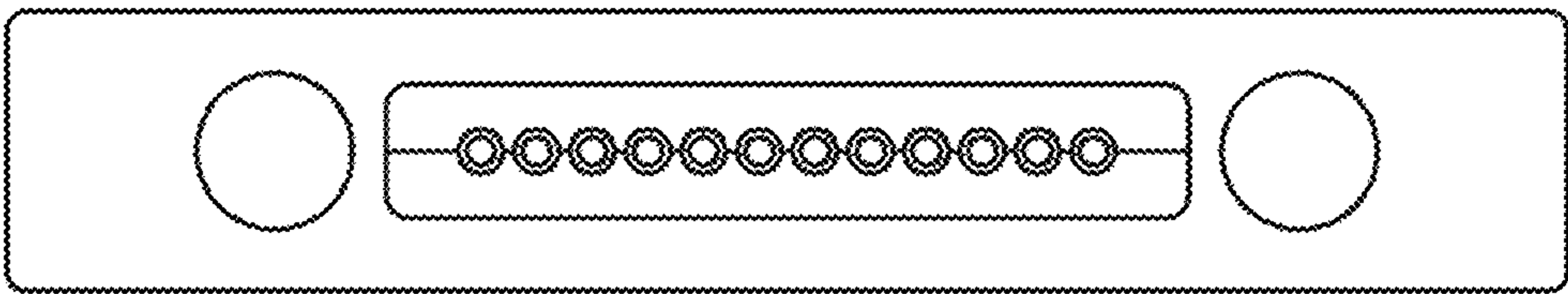


FIG. 4

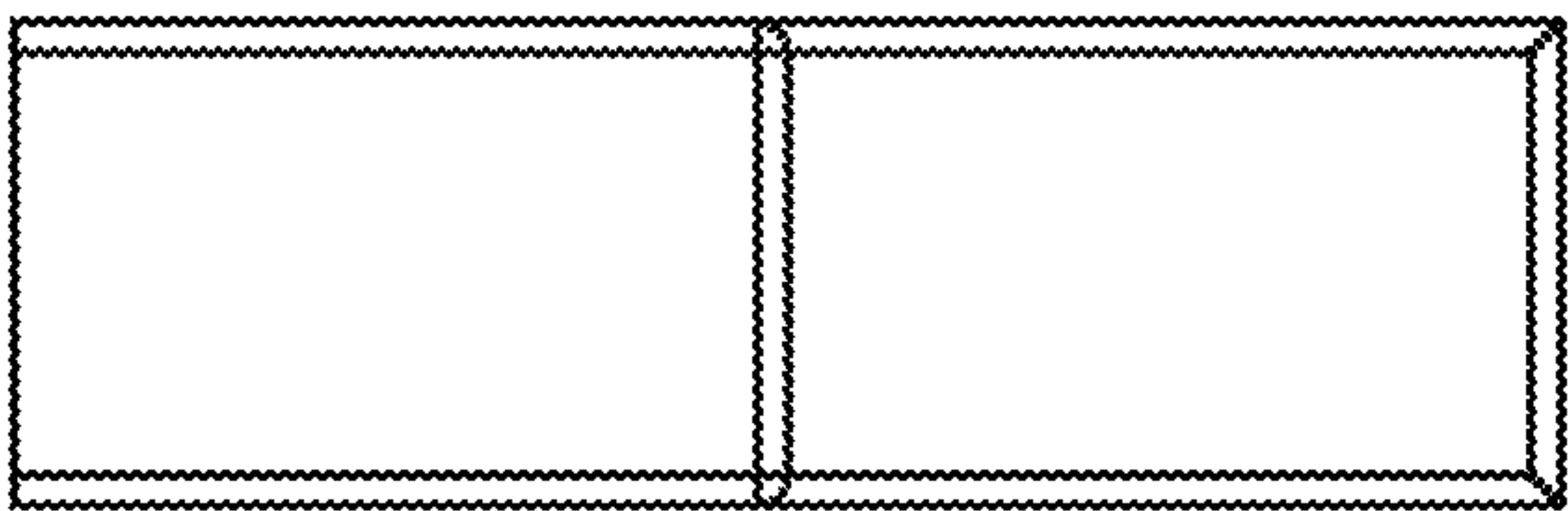


FIG. 5

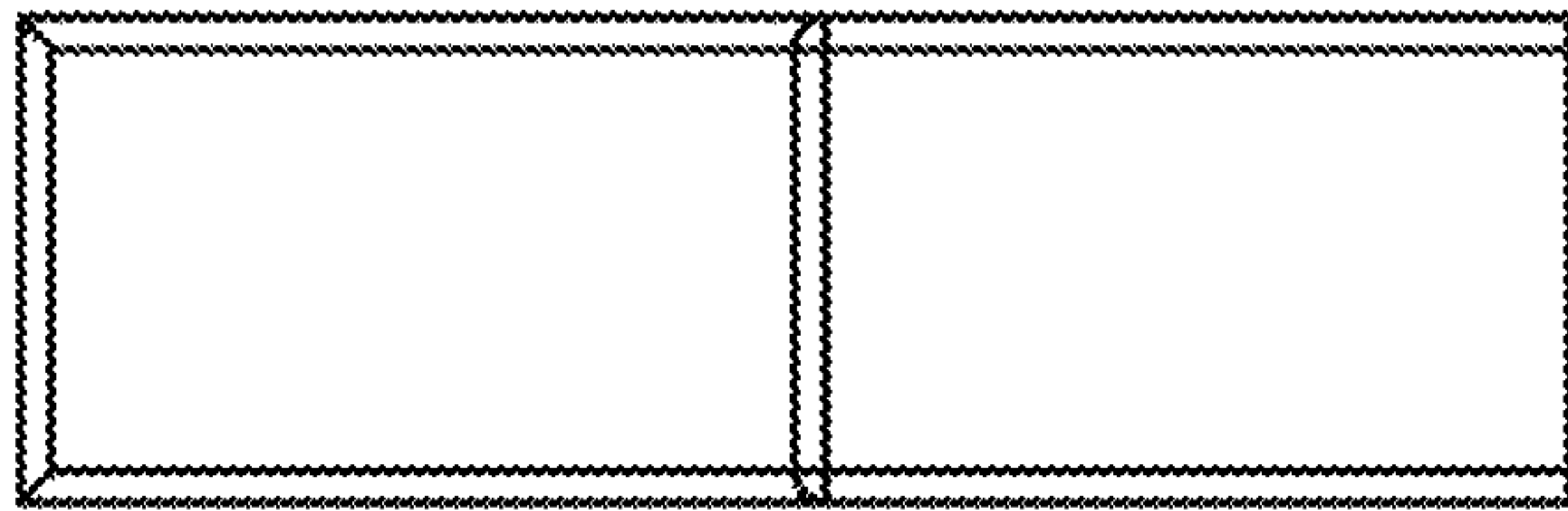


FIG. 6

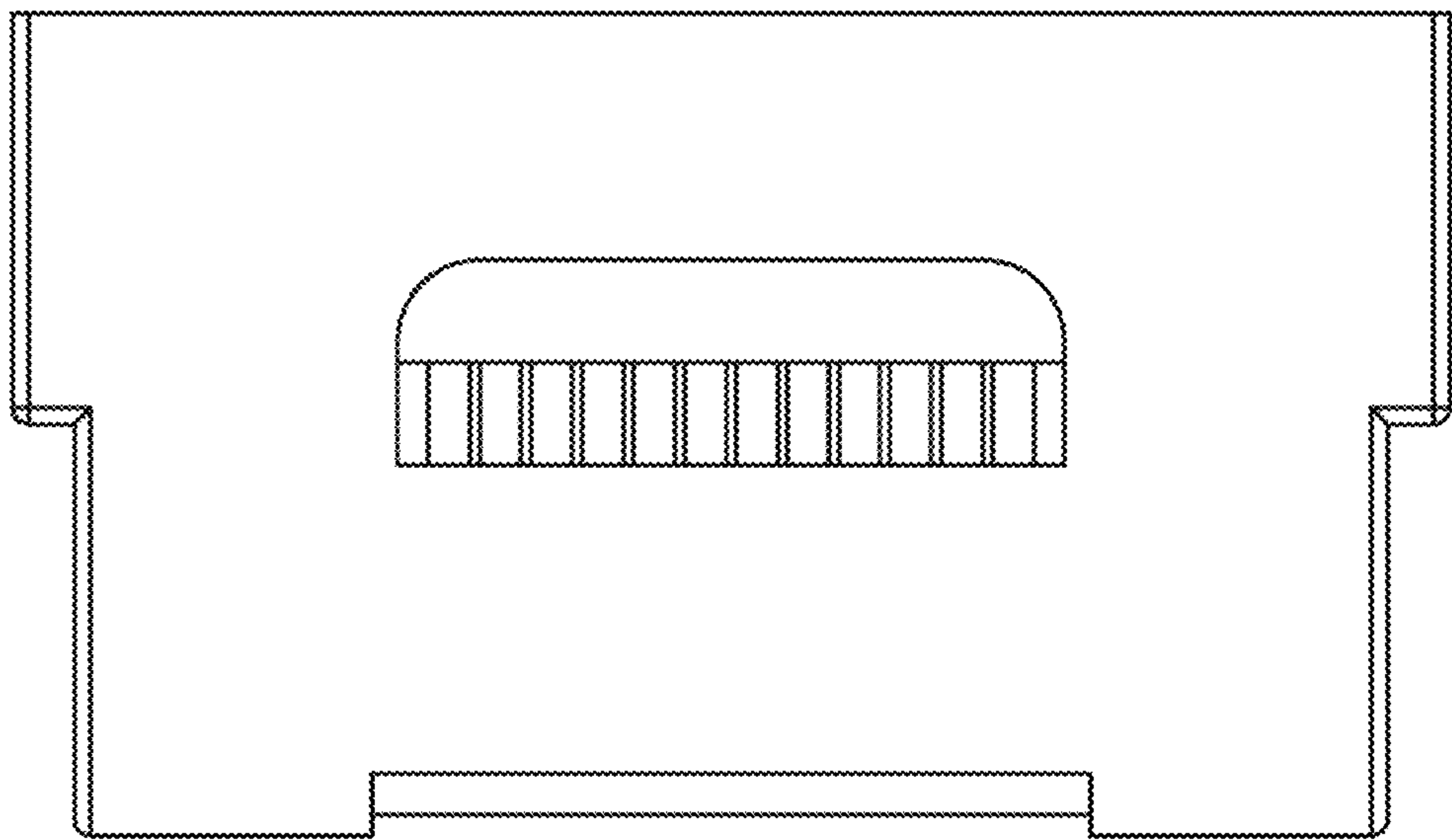


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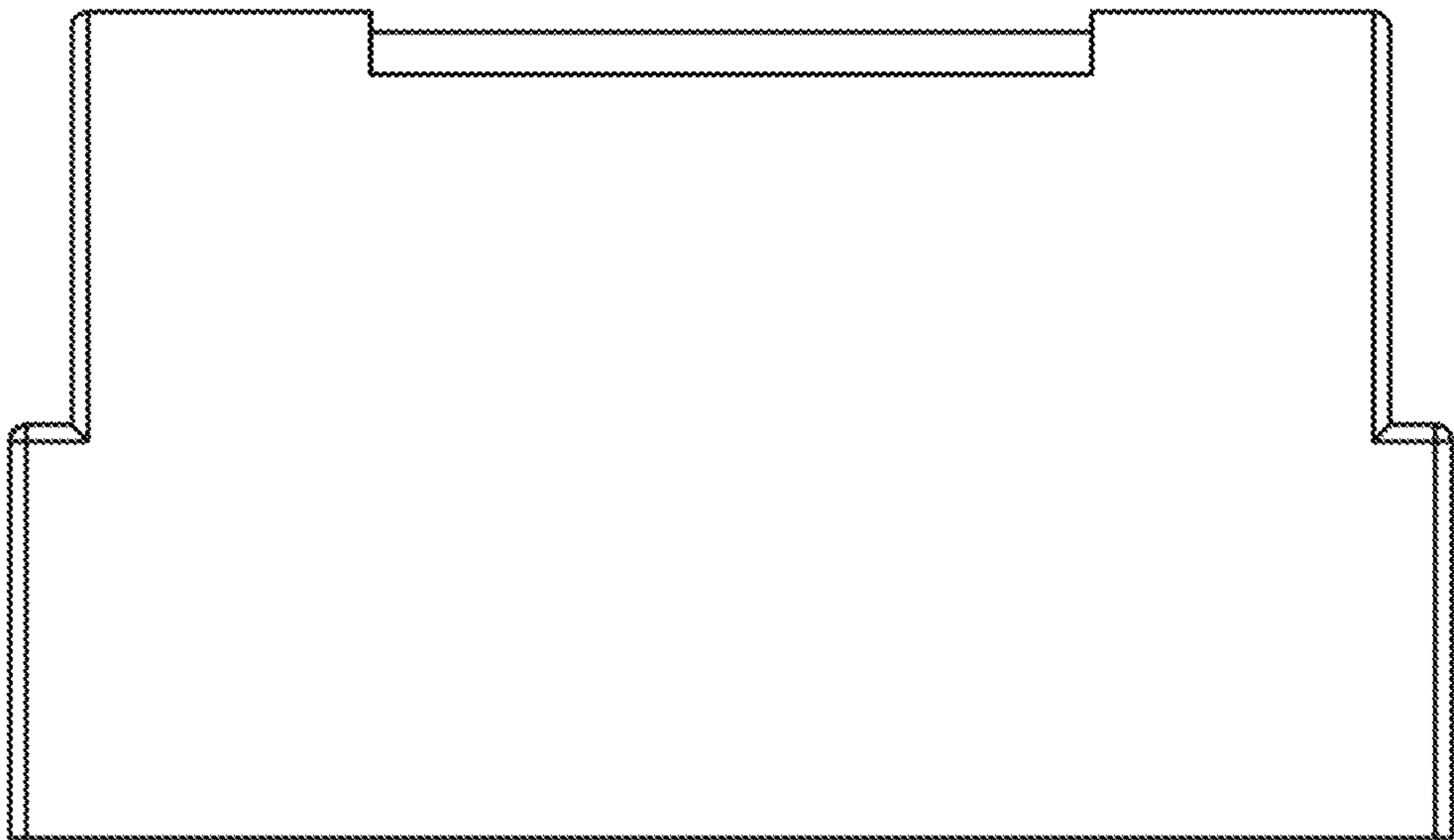


FIG. 8

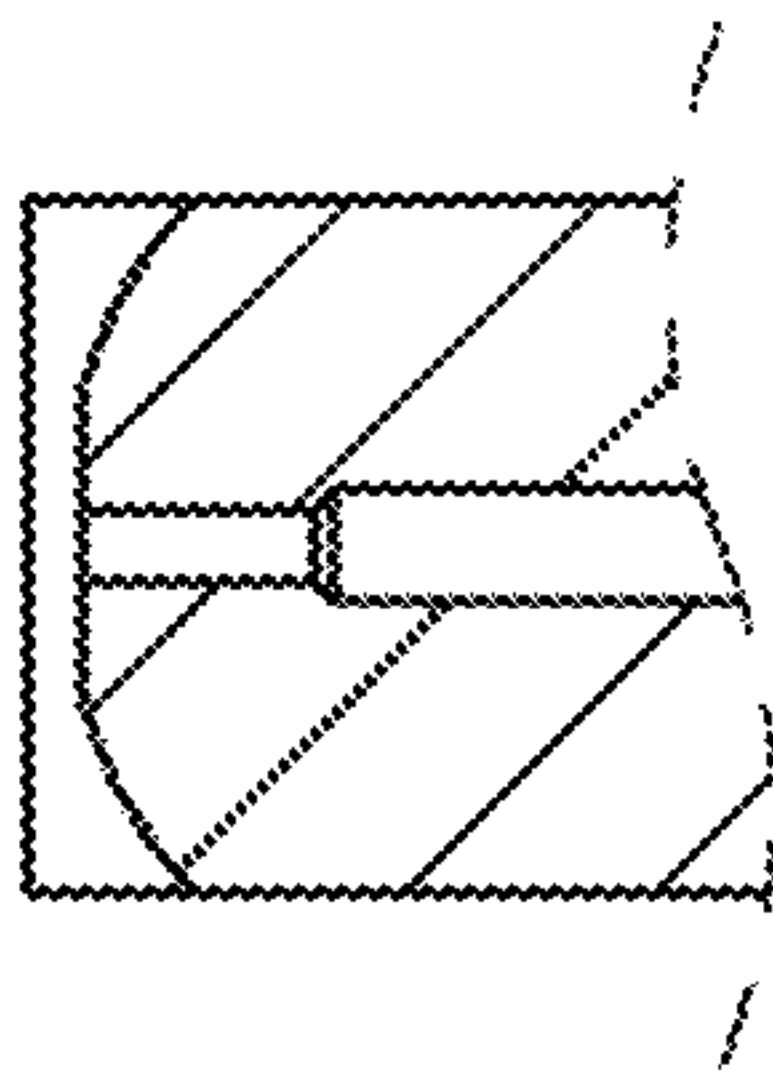


FIG. 9

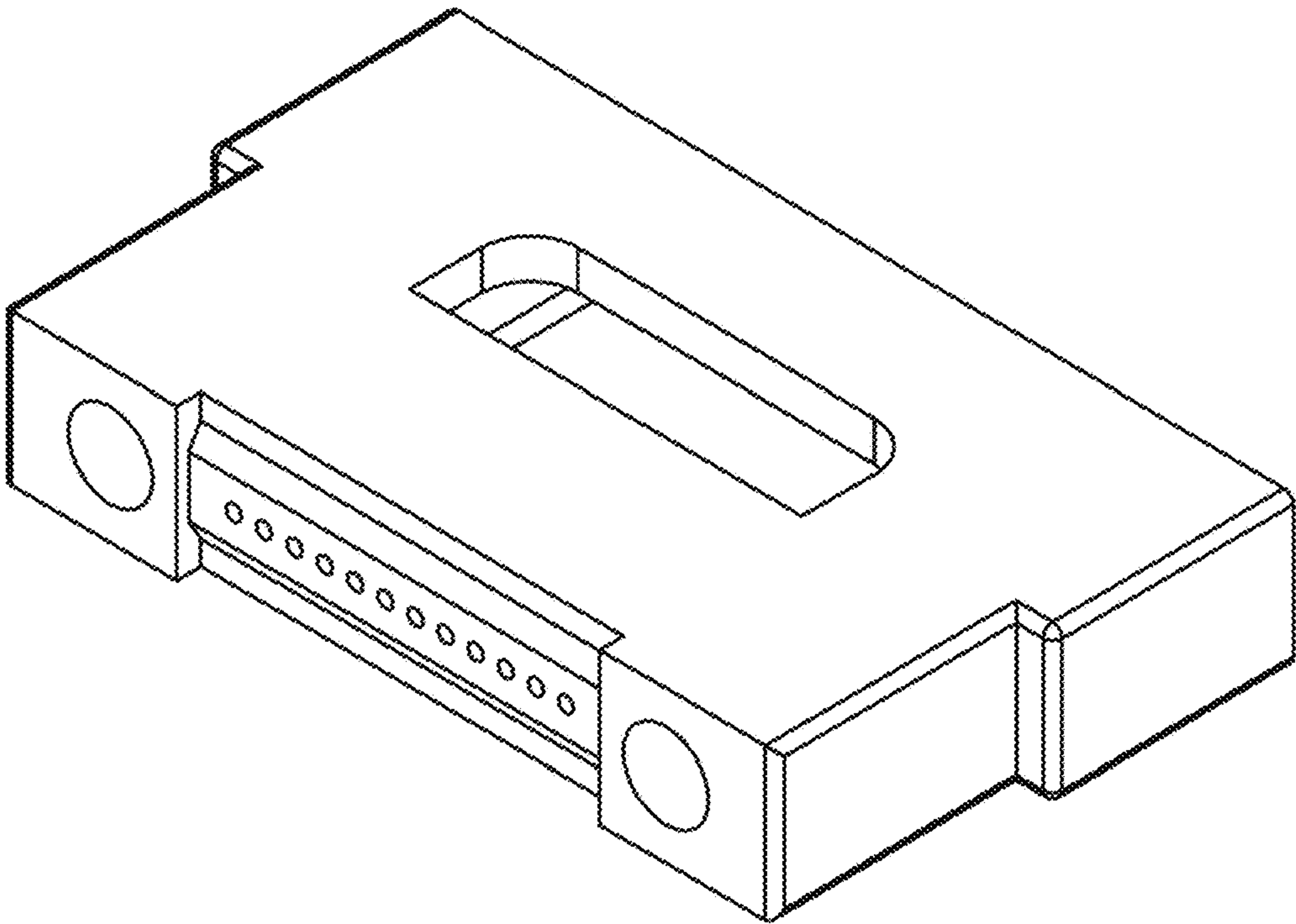


FIG. 10

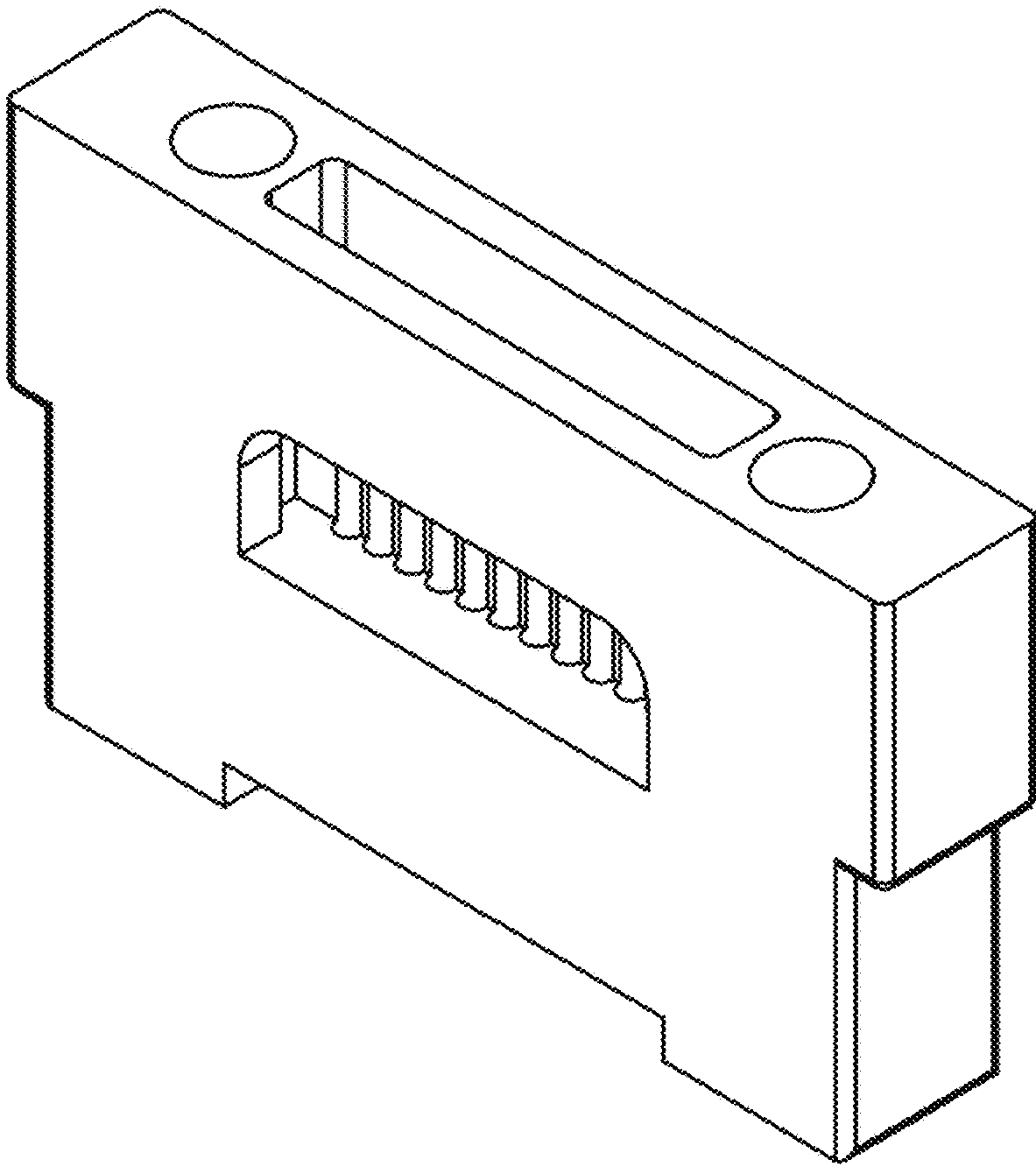


FIG. 11

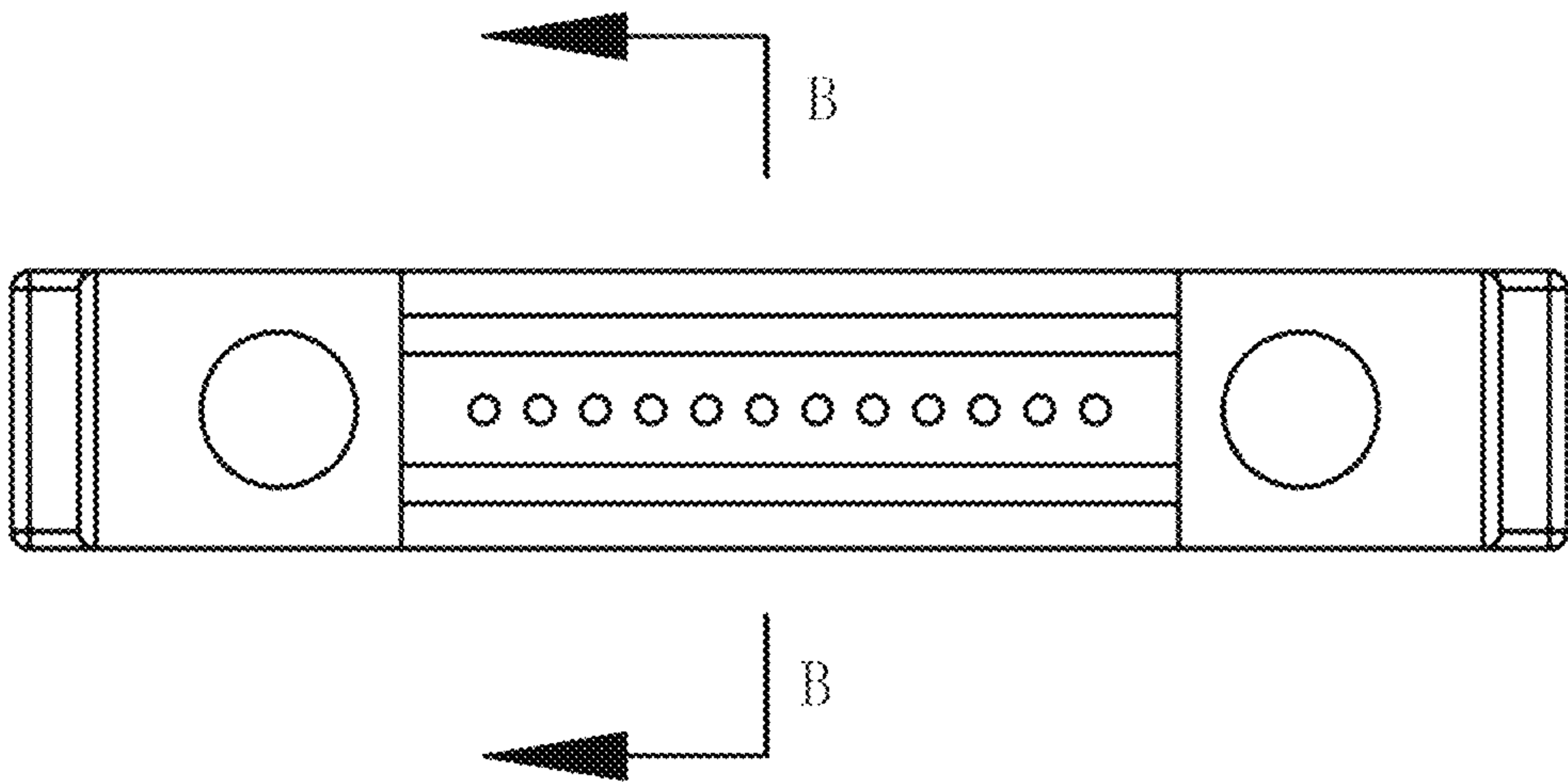


FIG. 12

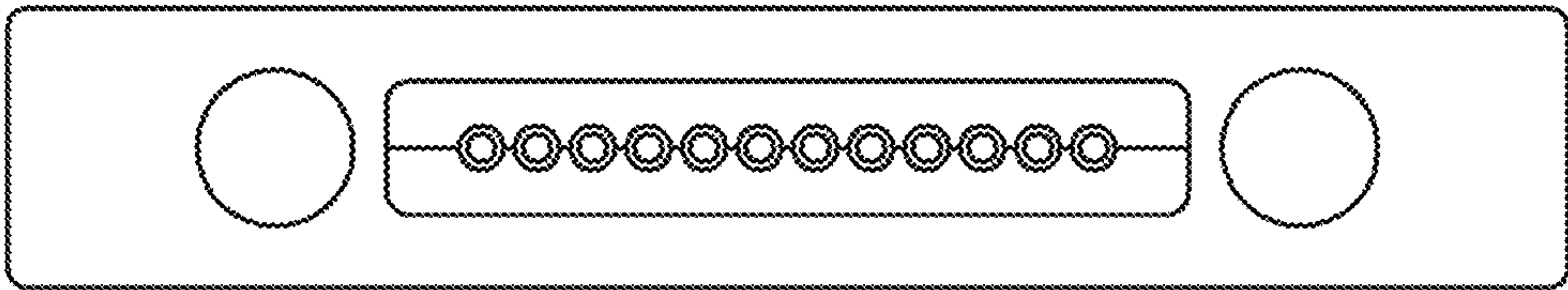


FIG. 13

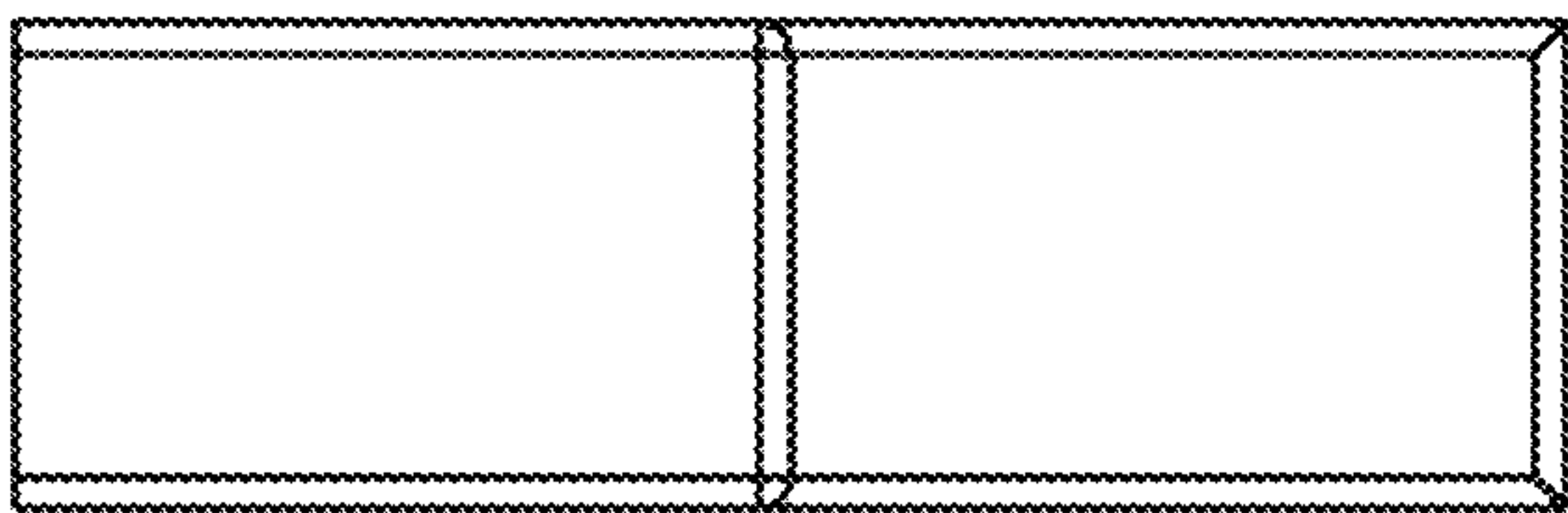


FIG. 14

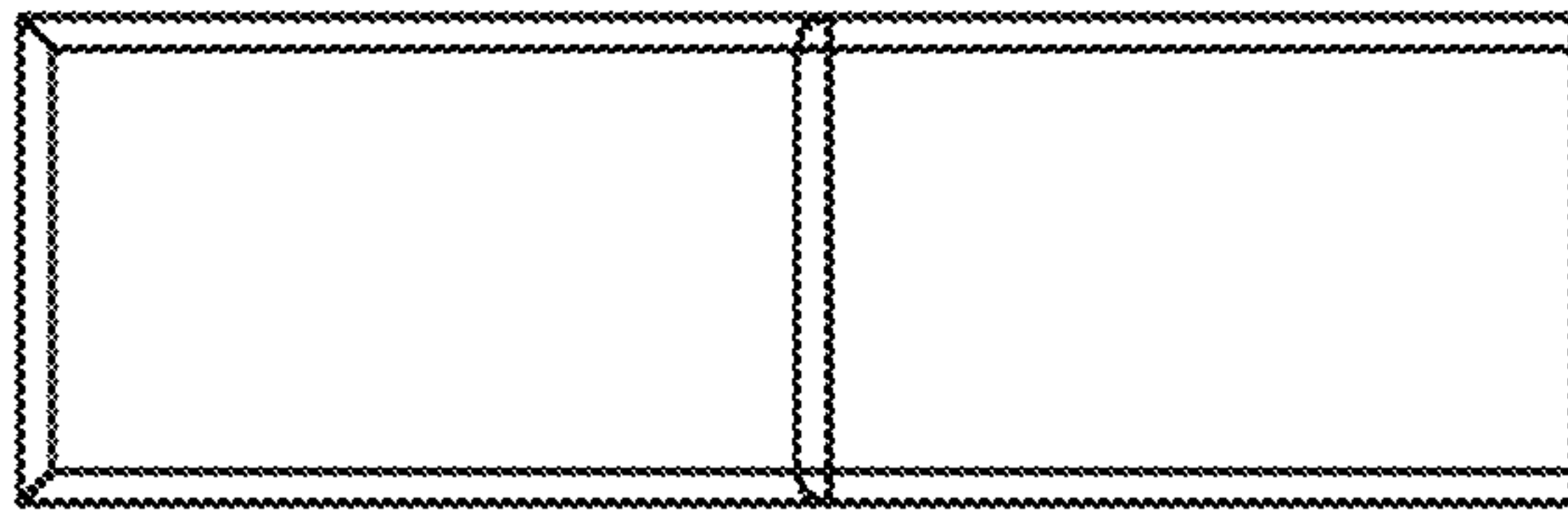


FIG. 15

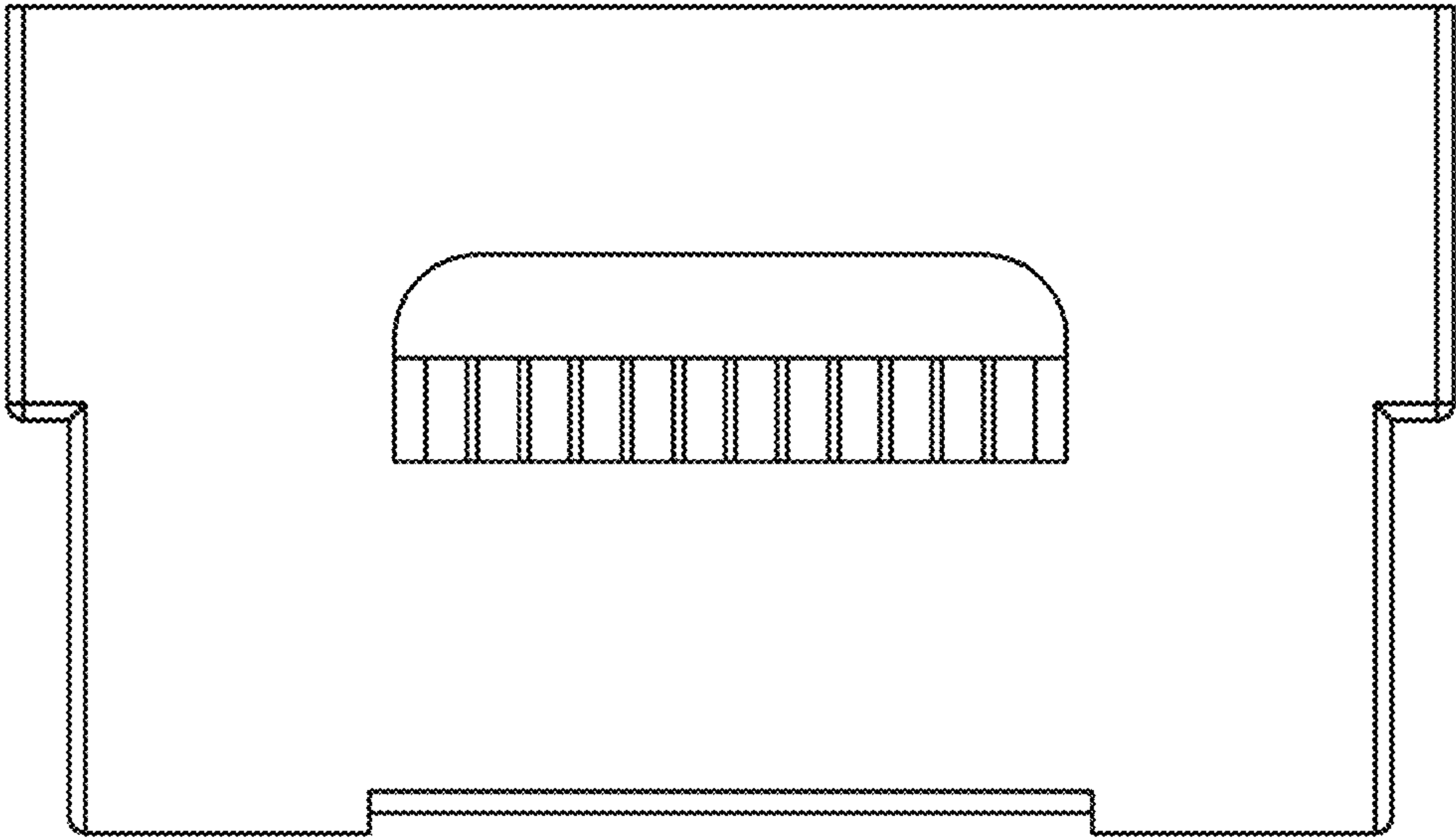


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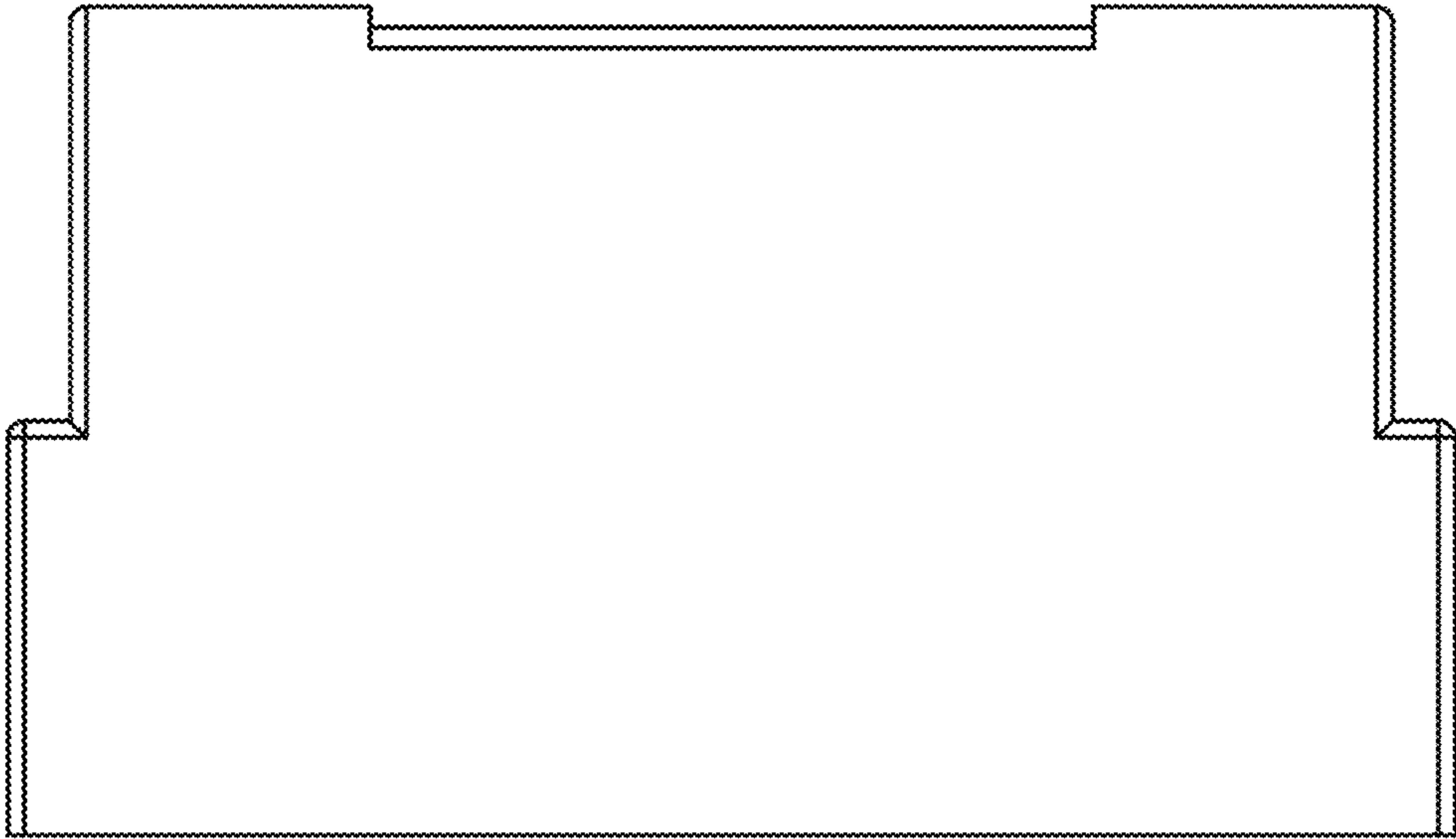


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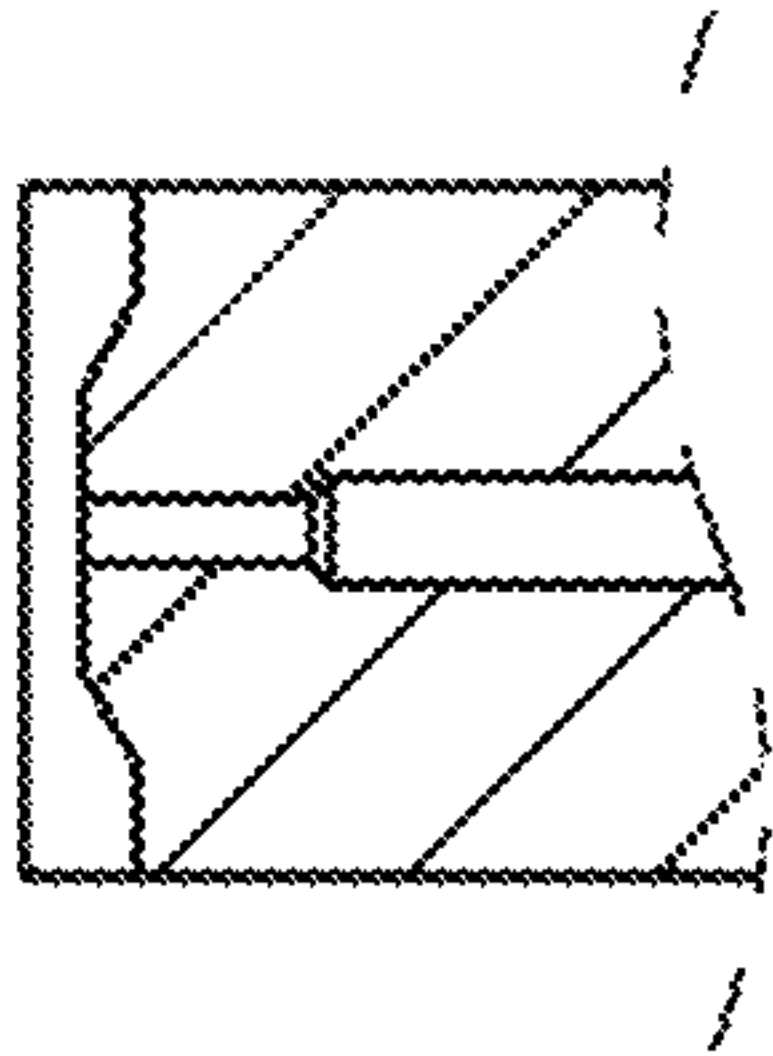


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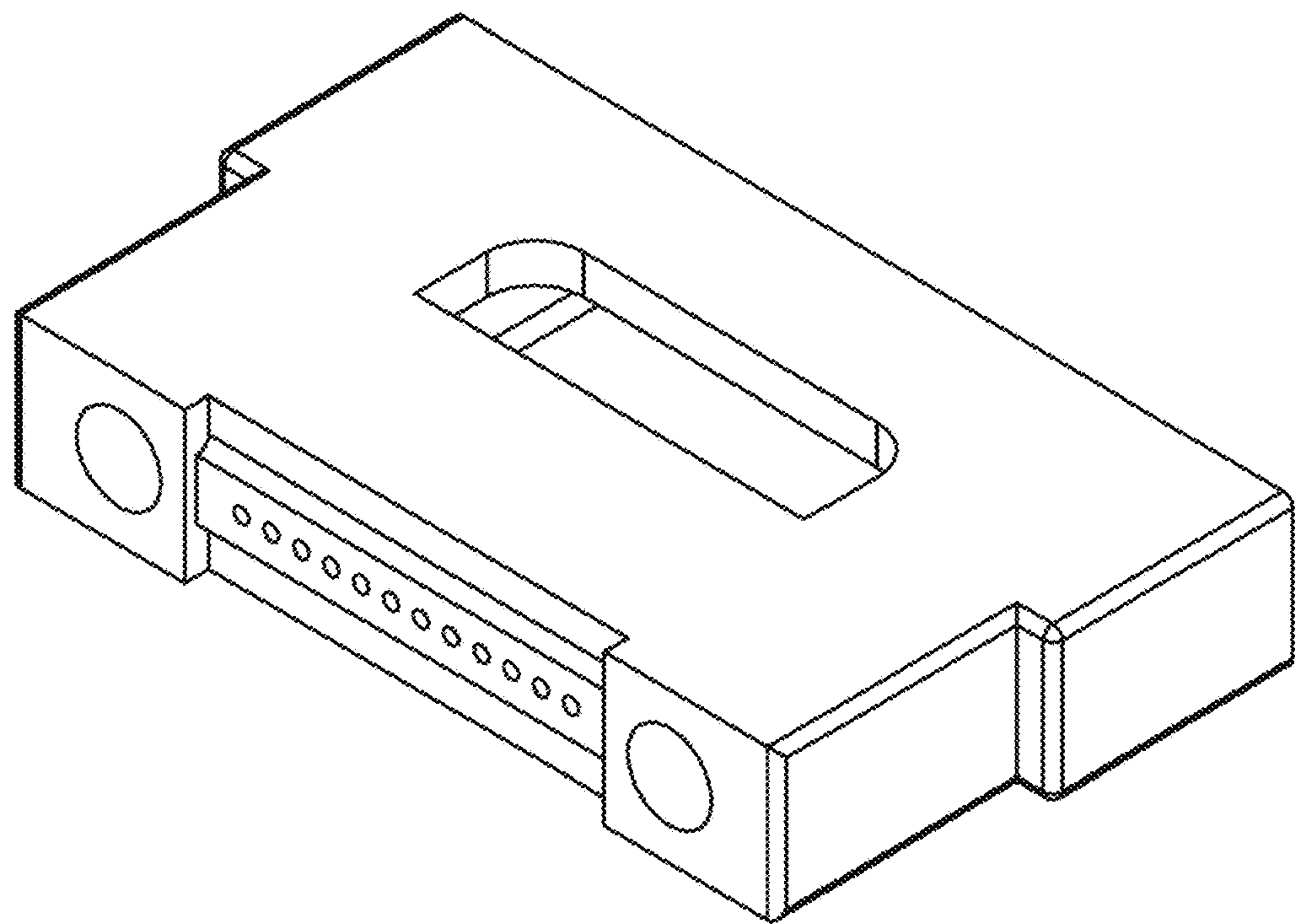


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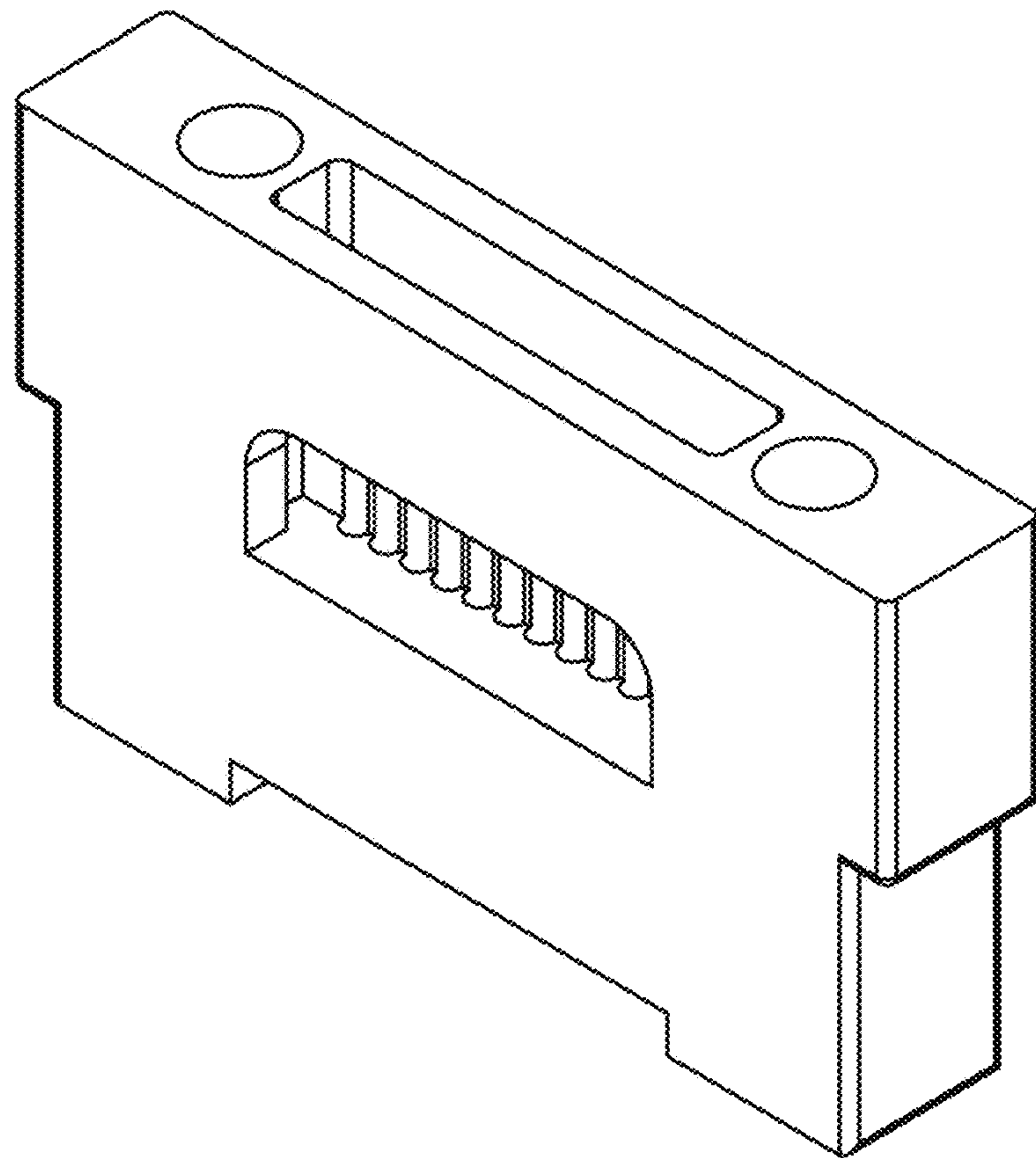


FIG. 20

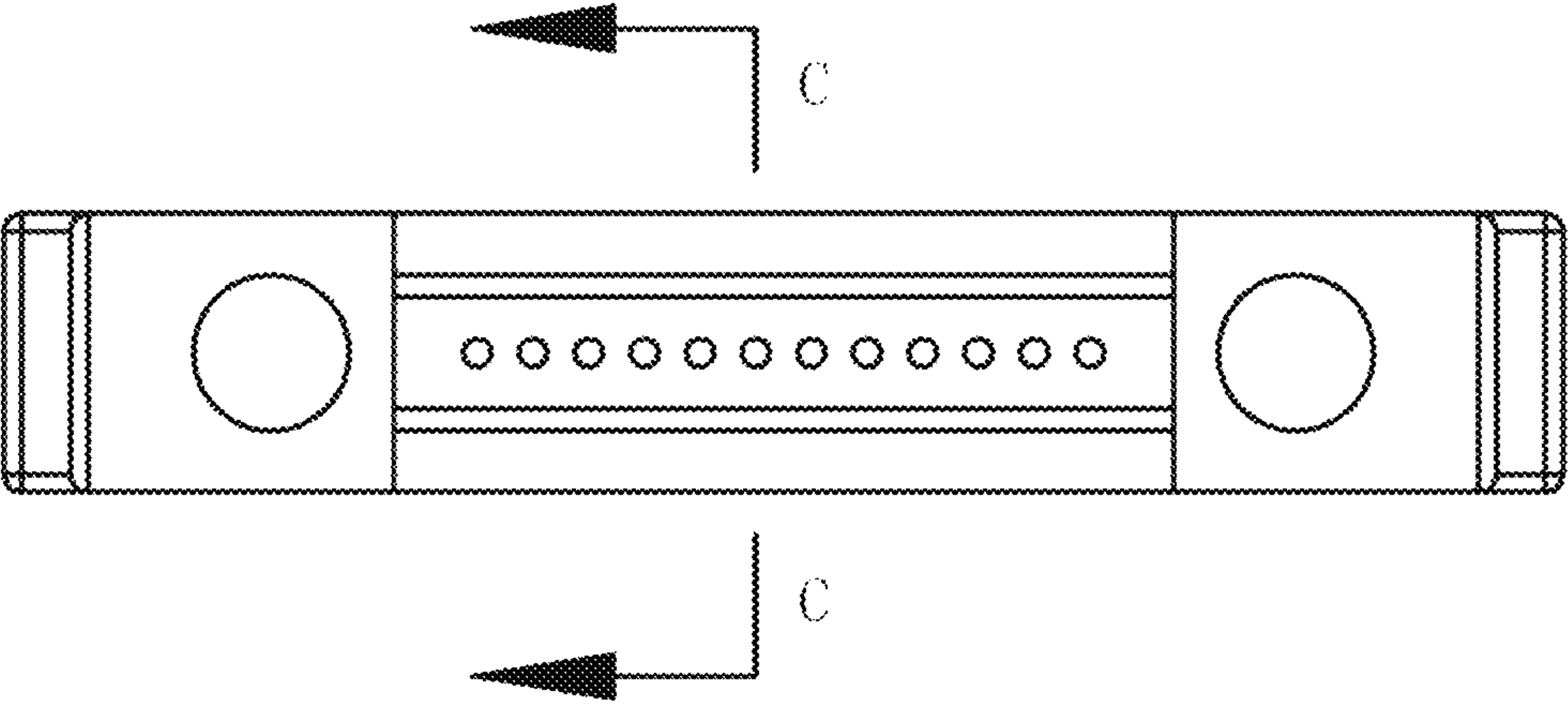


FIG. 21

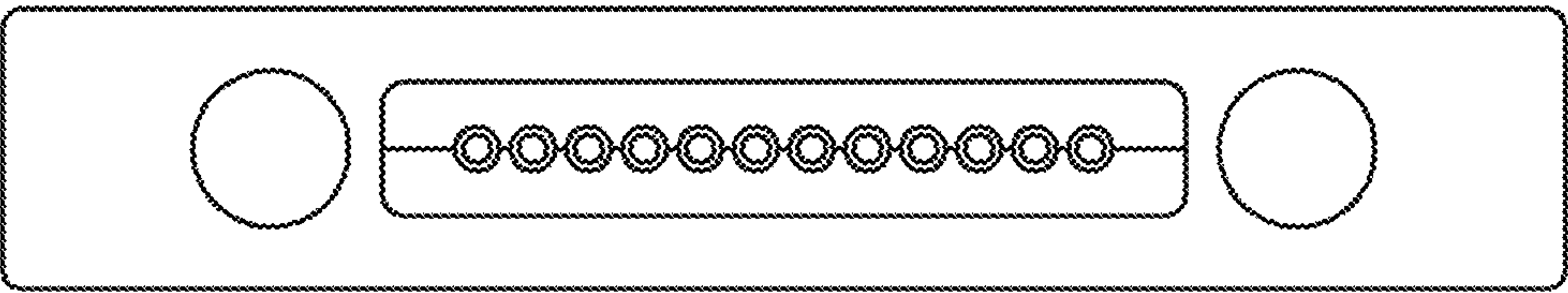


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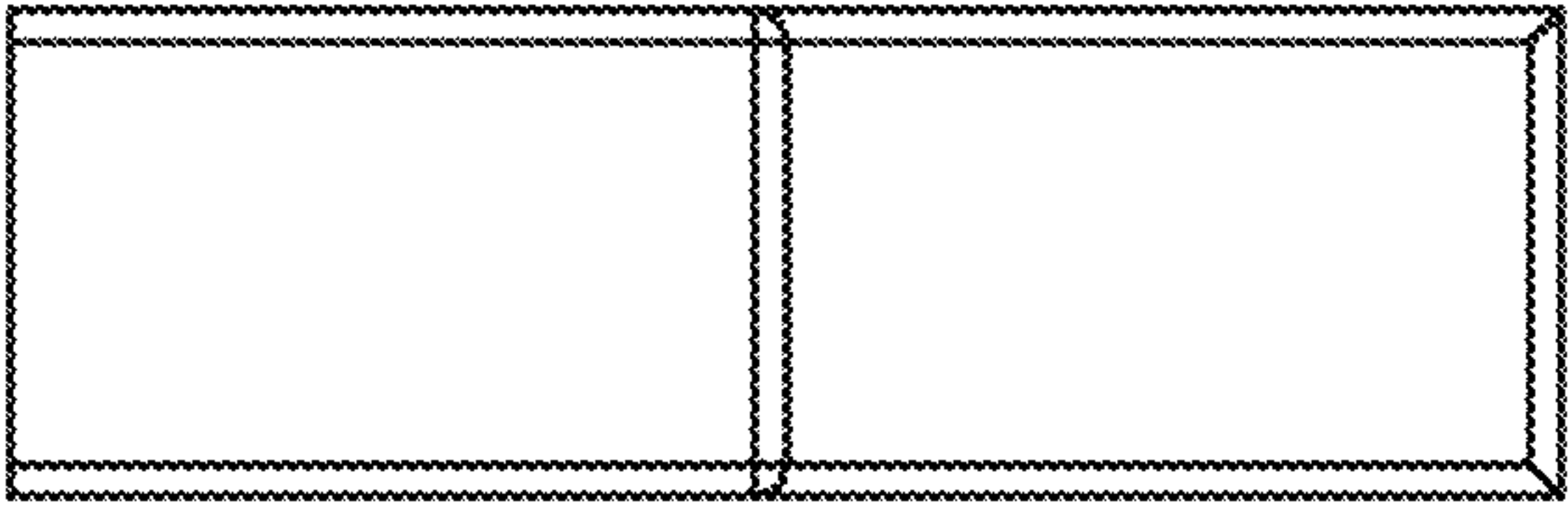


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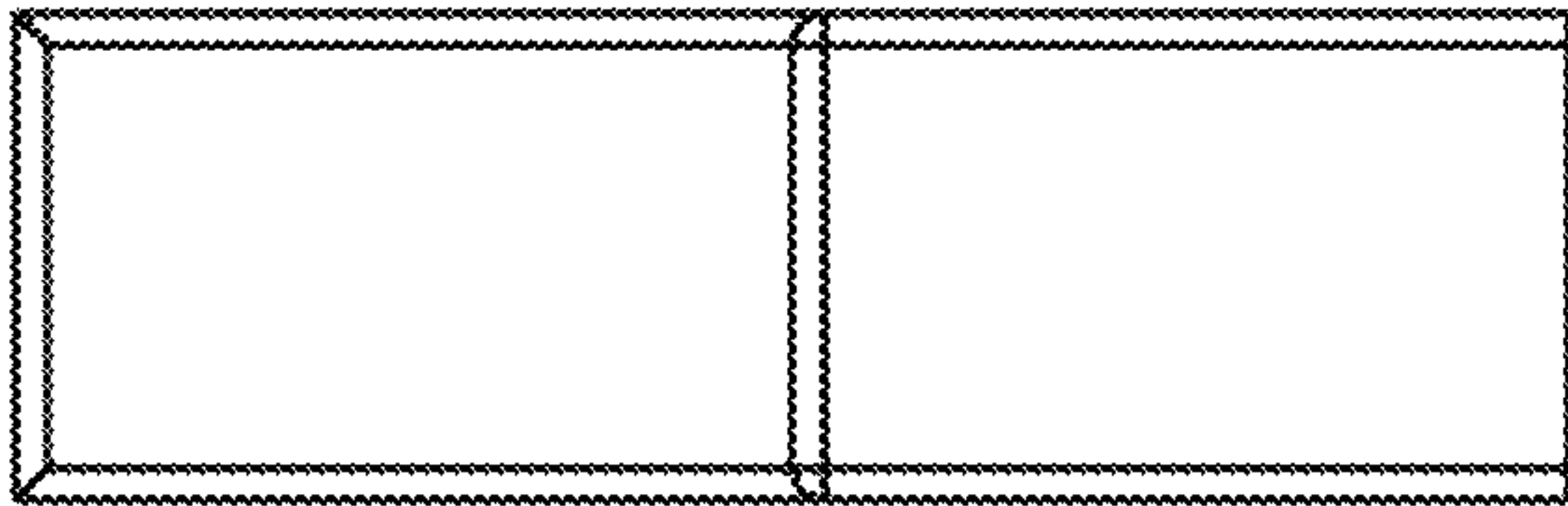


FIG. 24

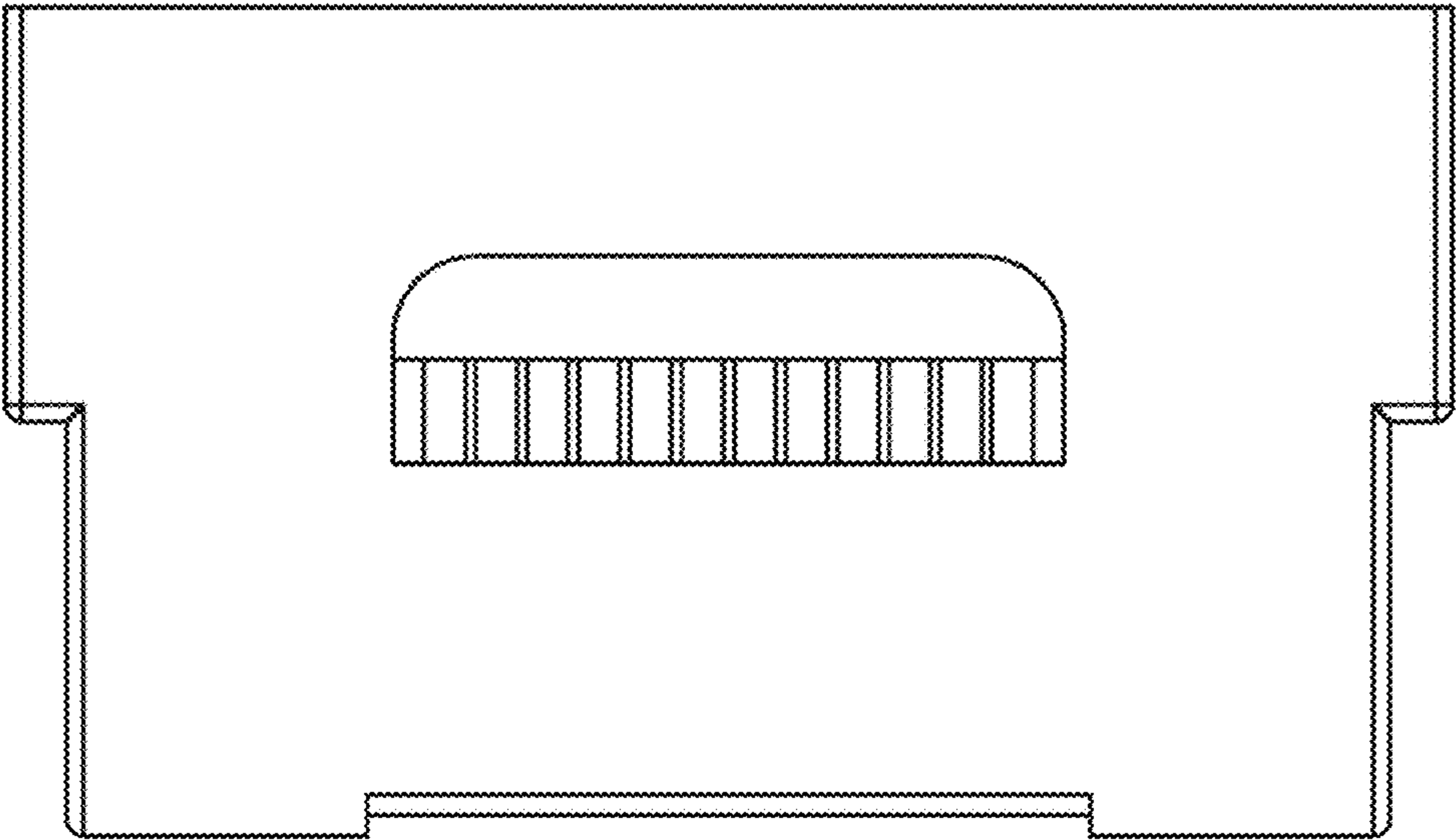


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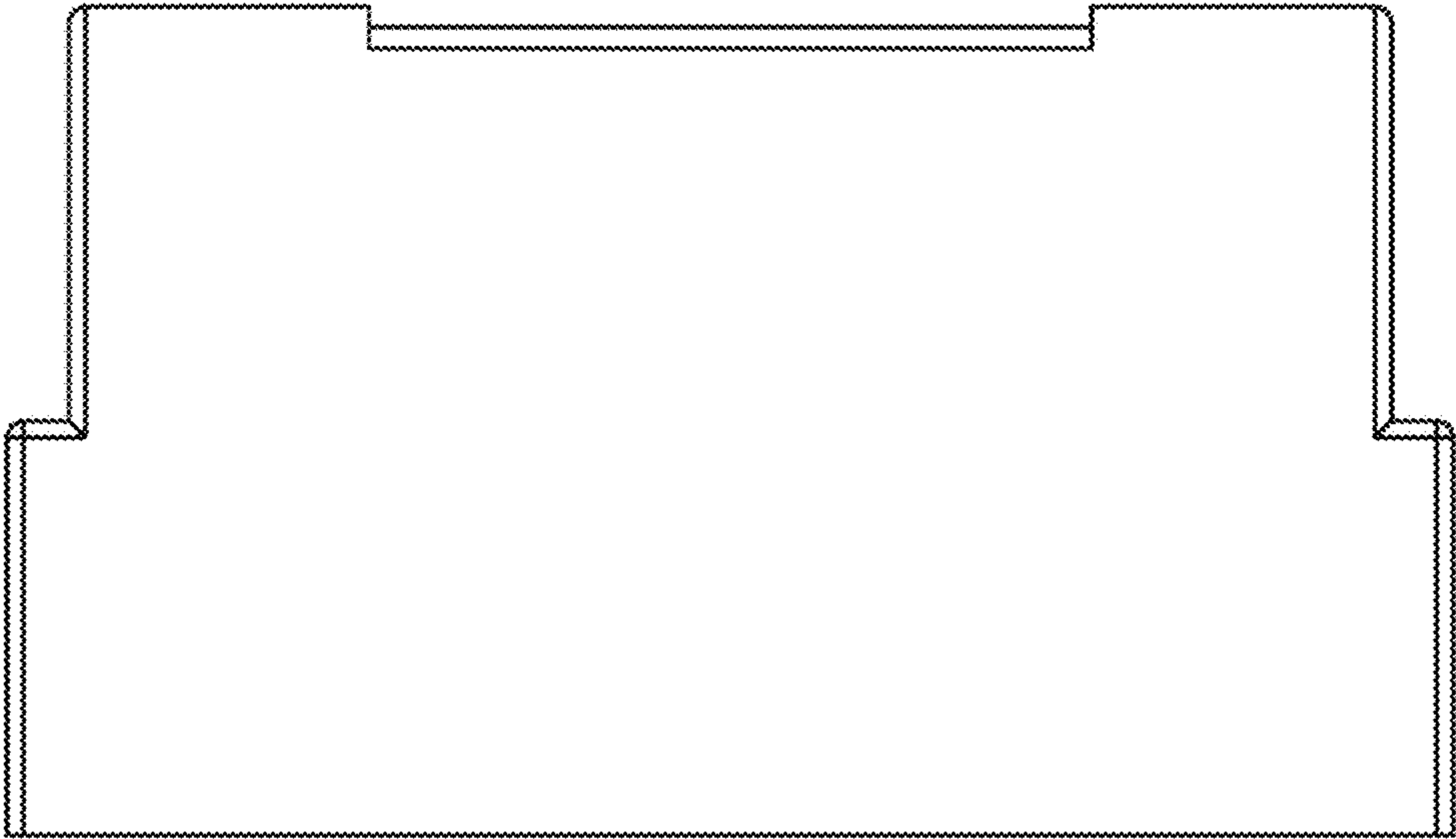


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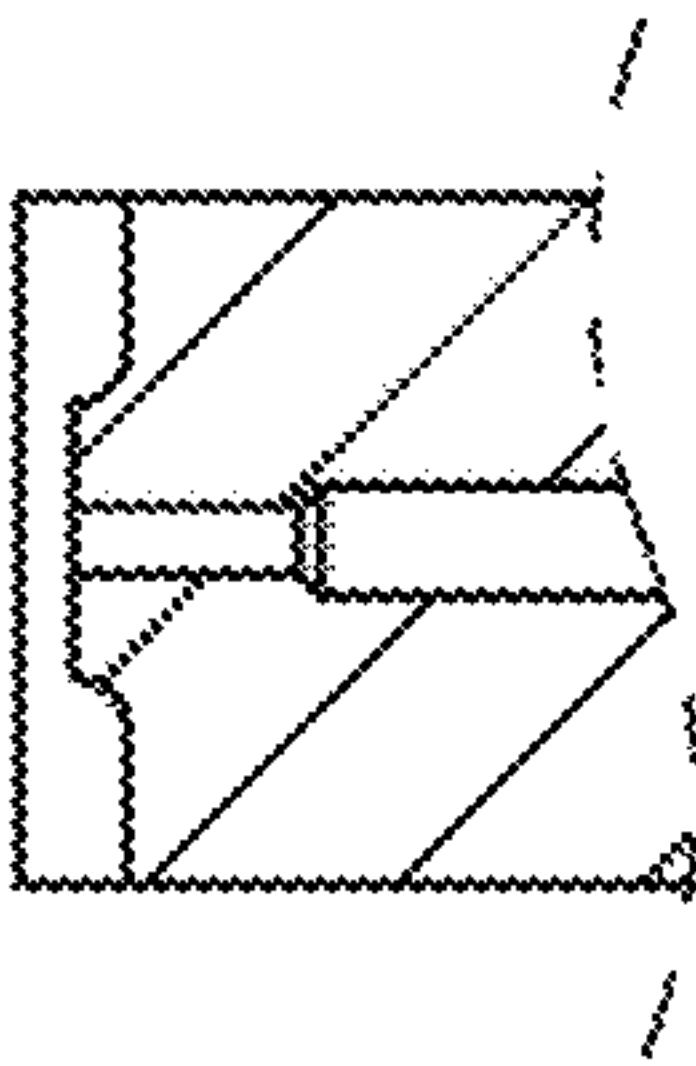


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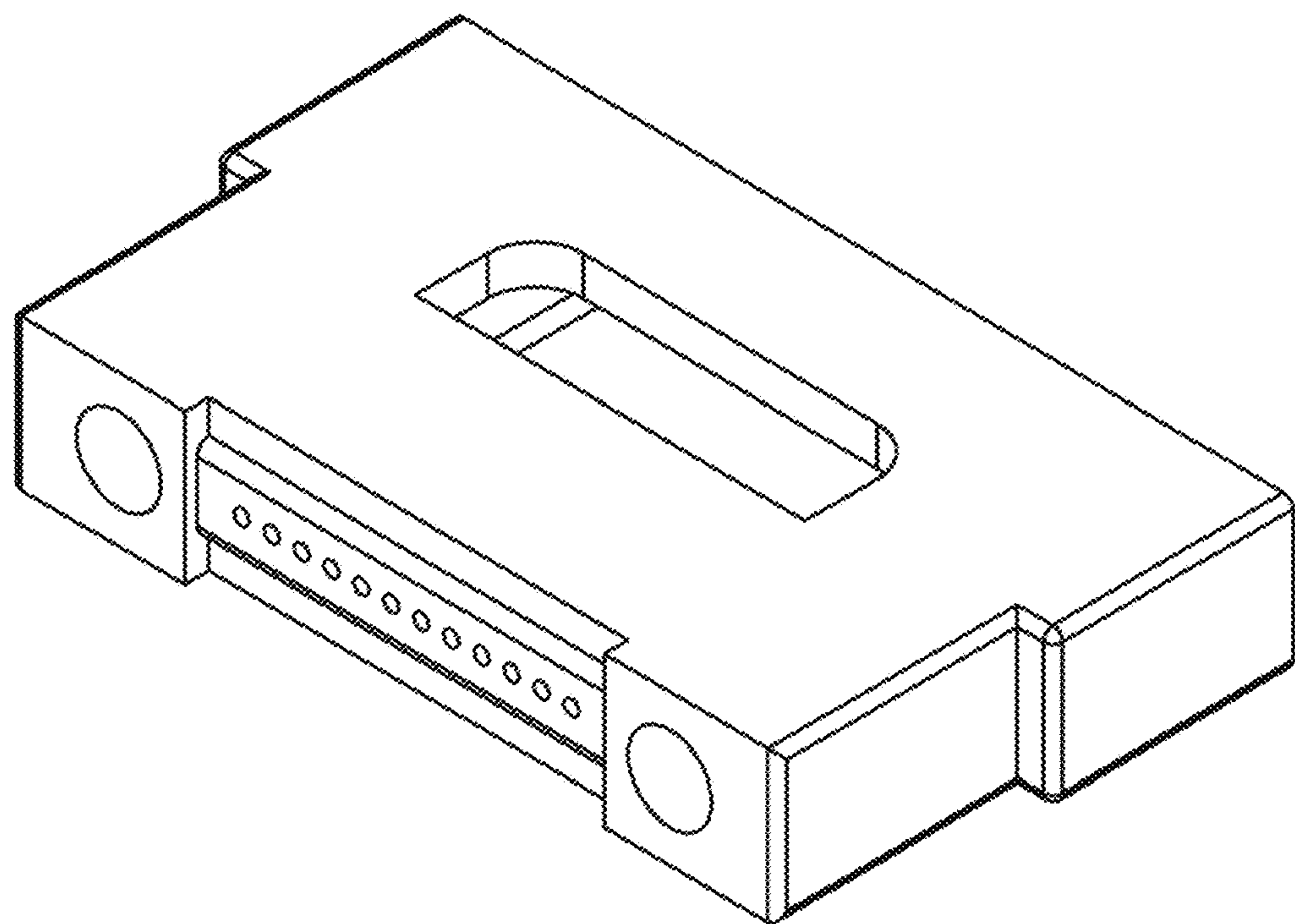


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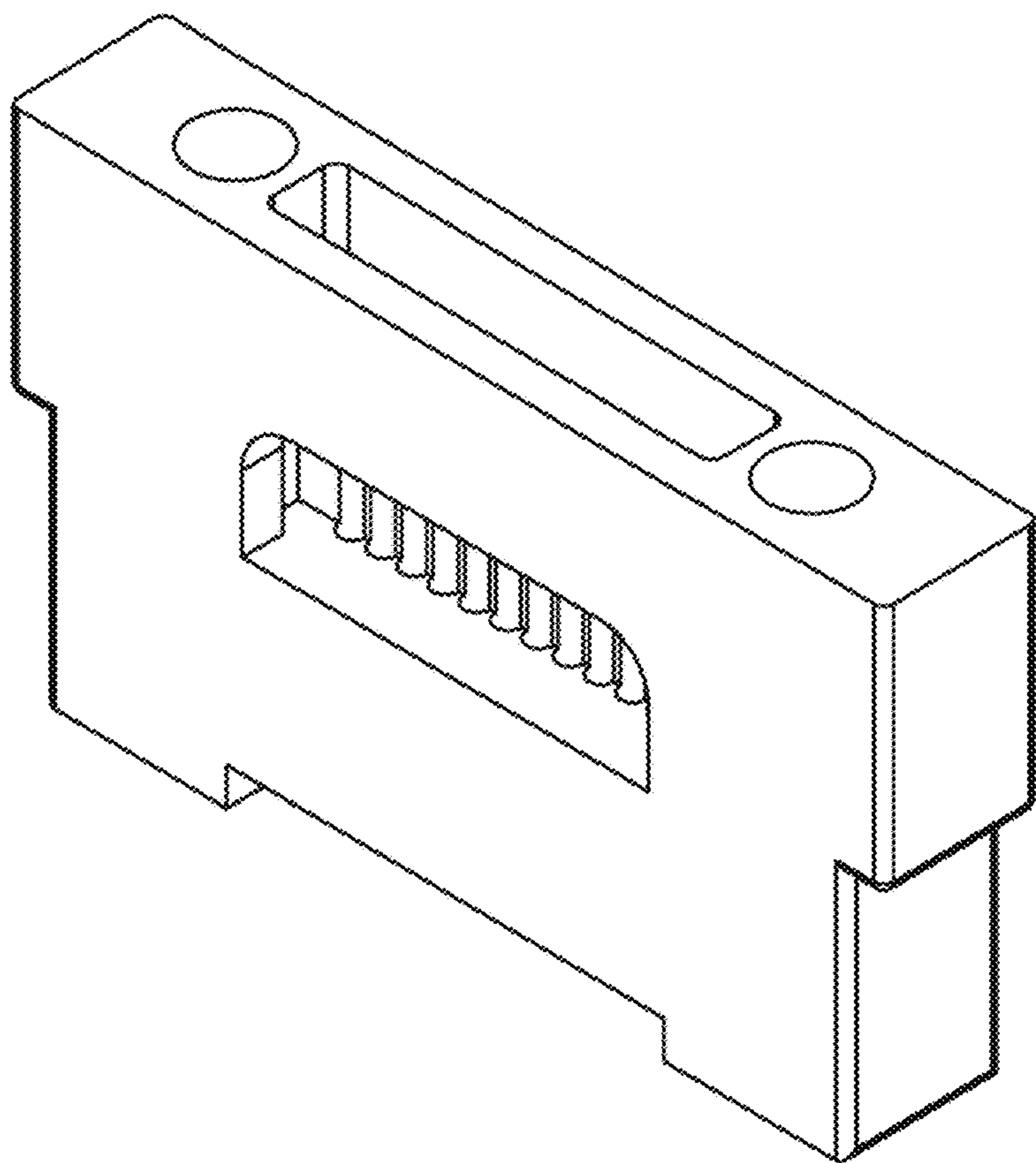


FIG. 29

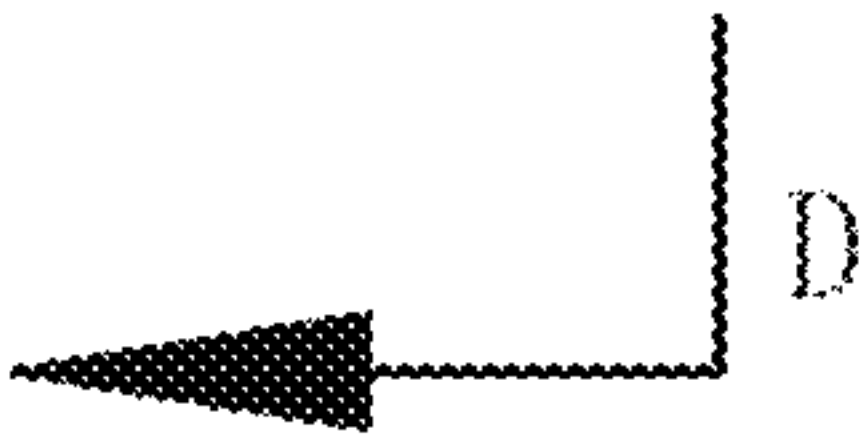
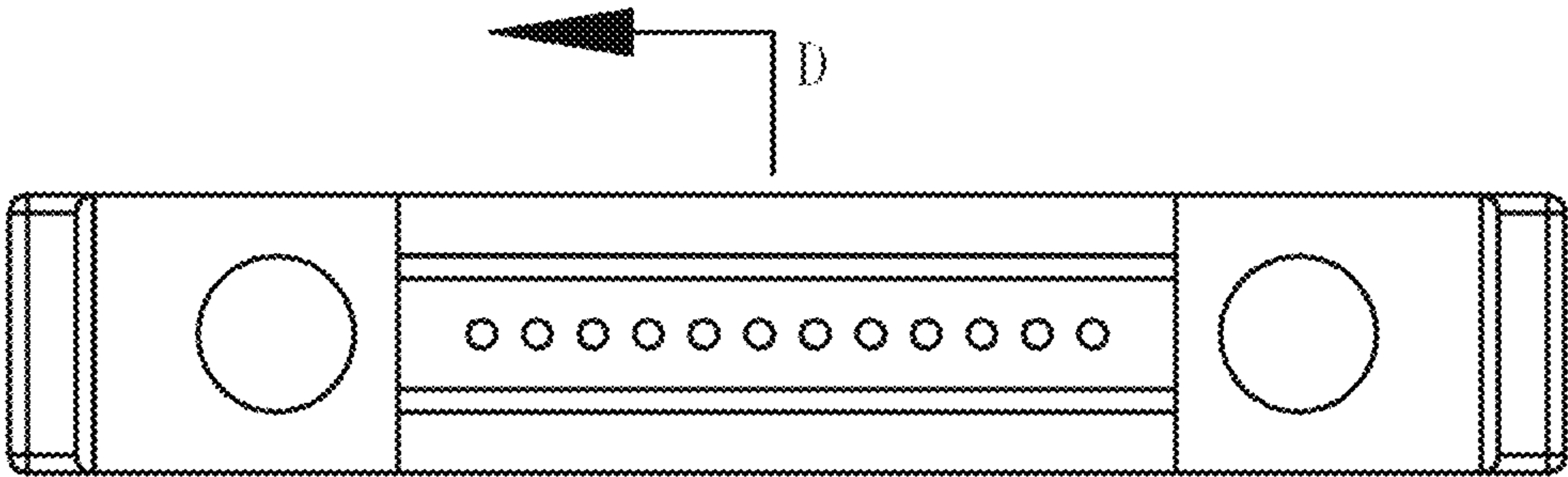


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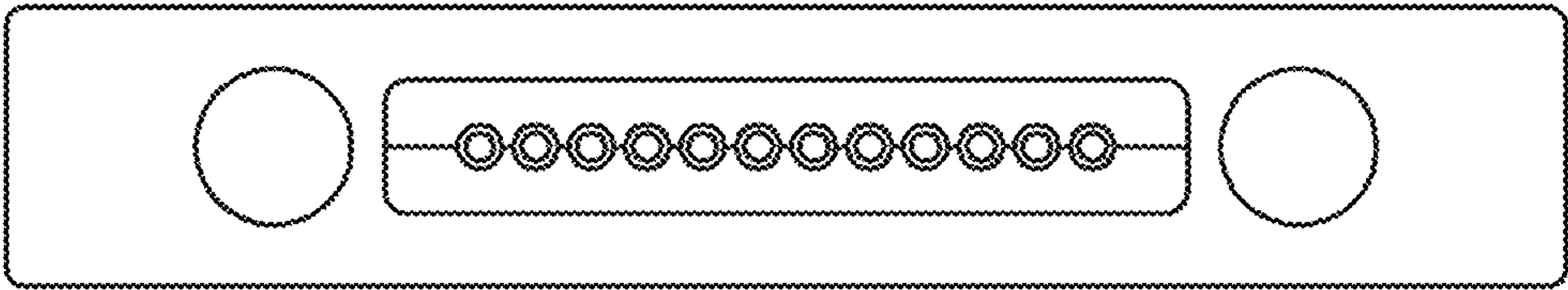


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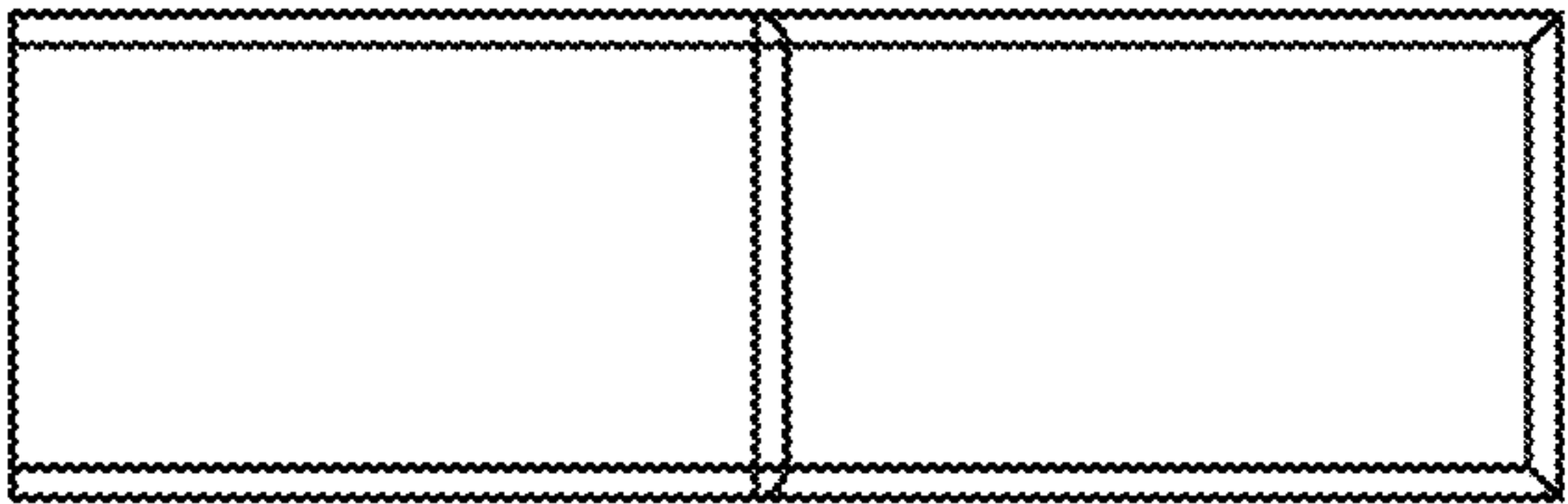


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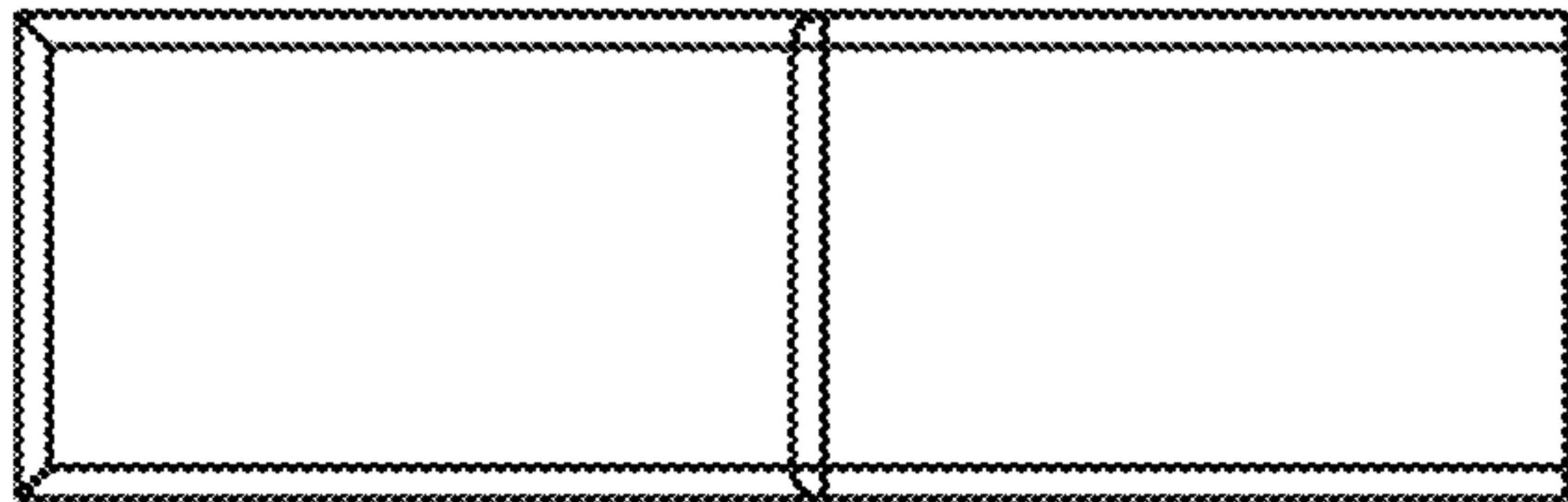


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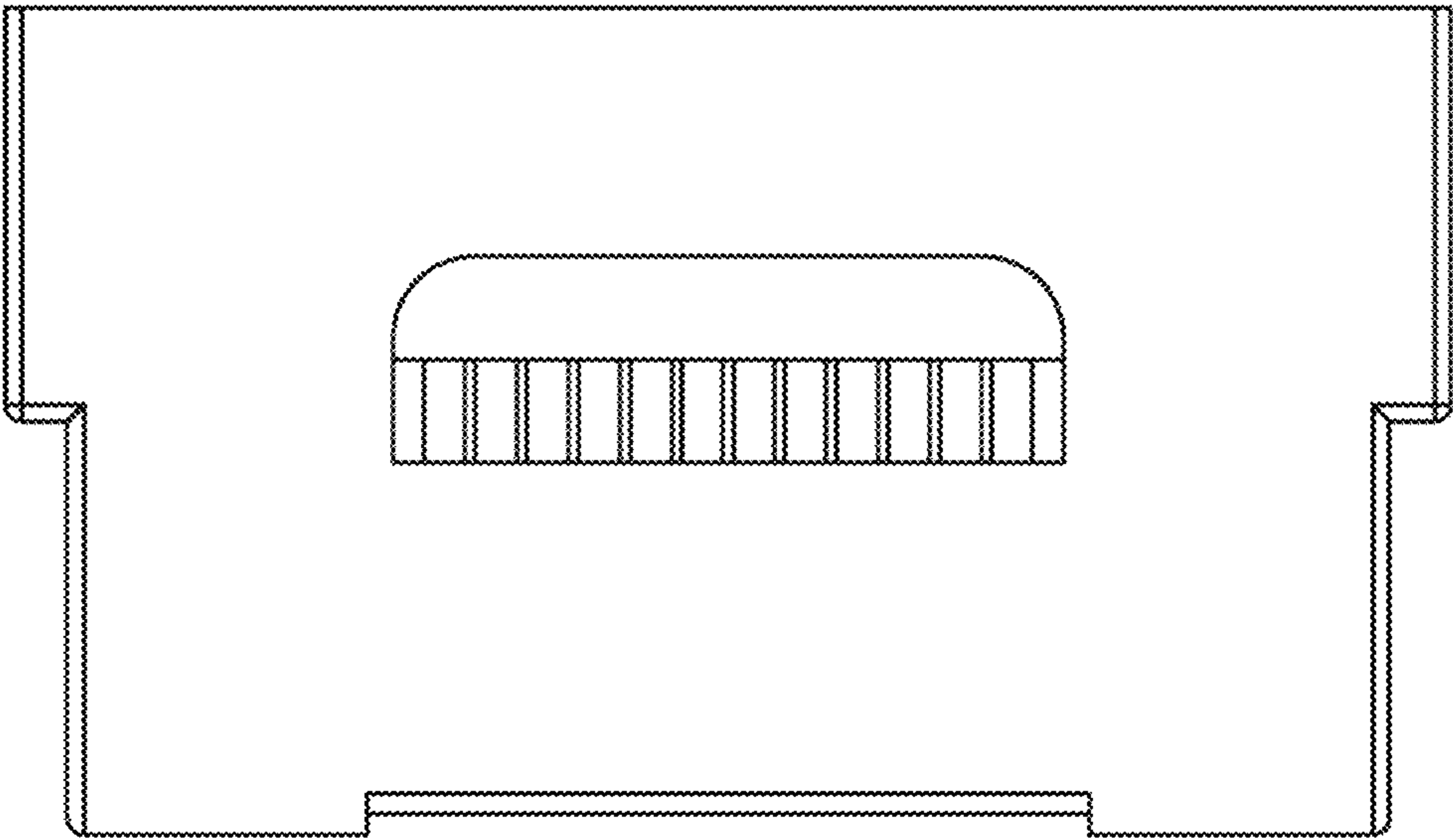


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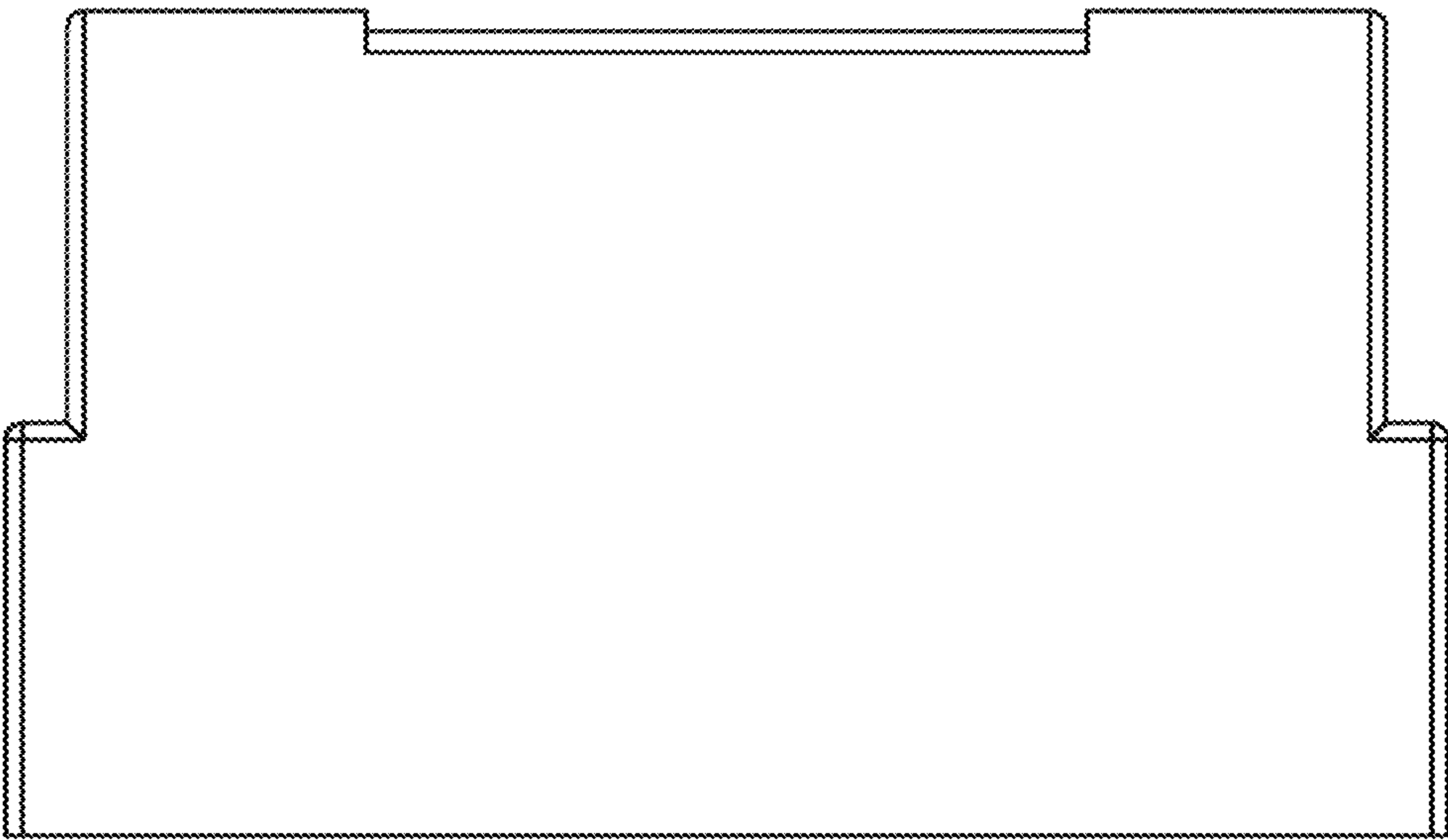


FIG. 35

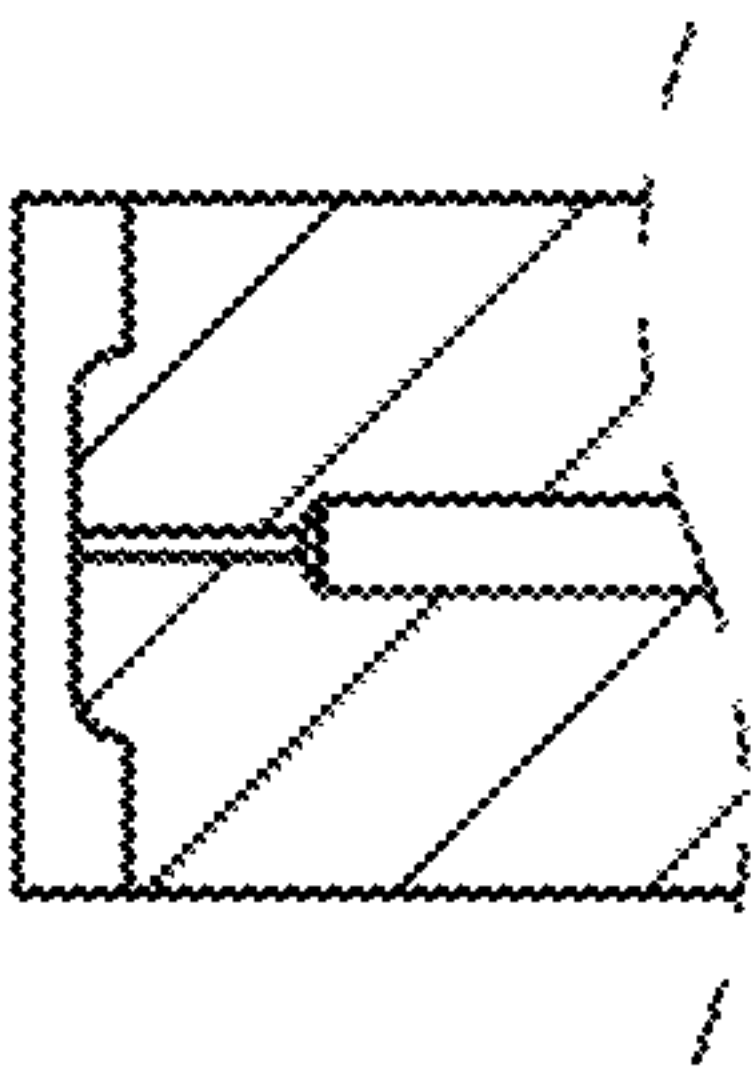


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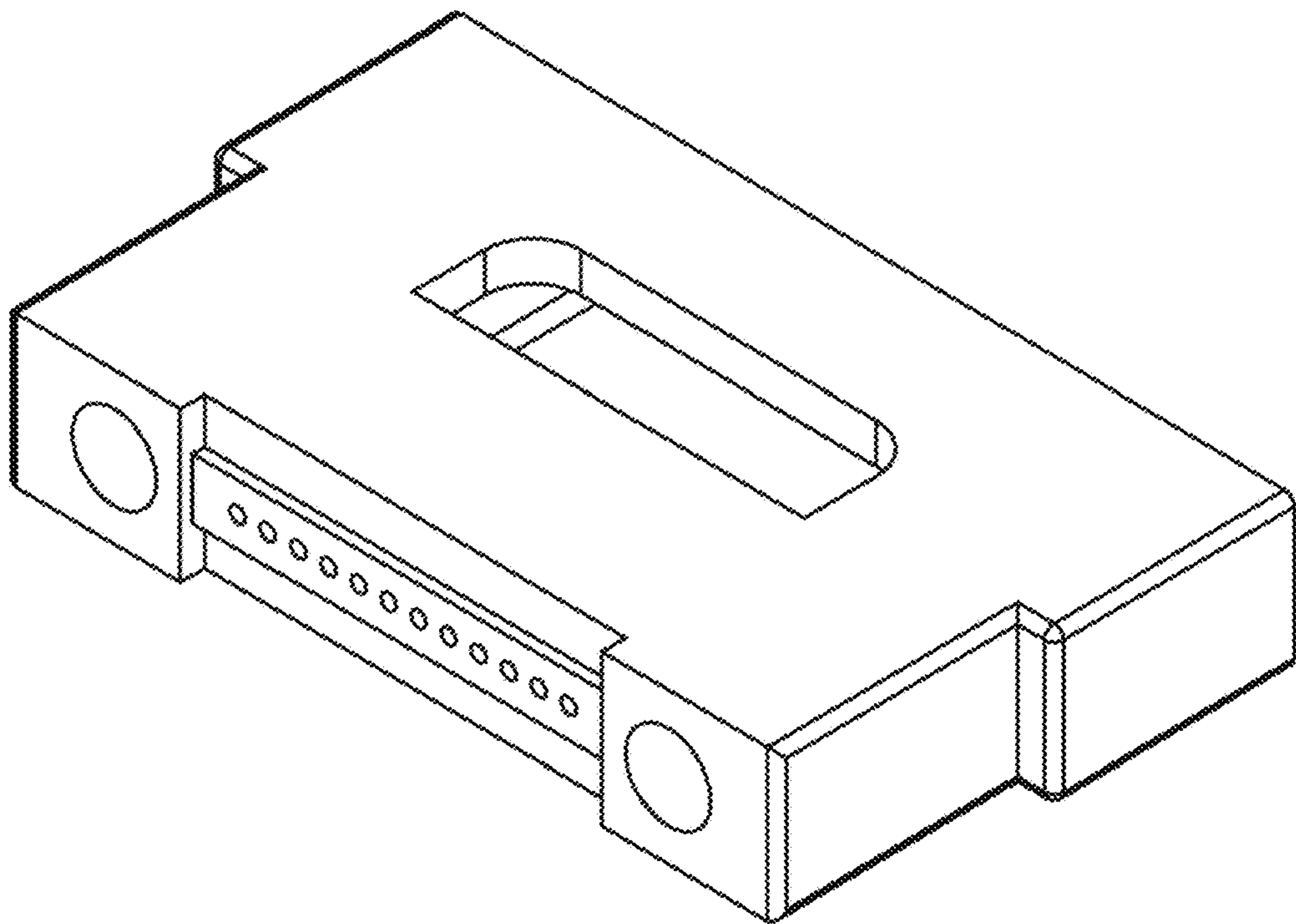


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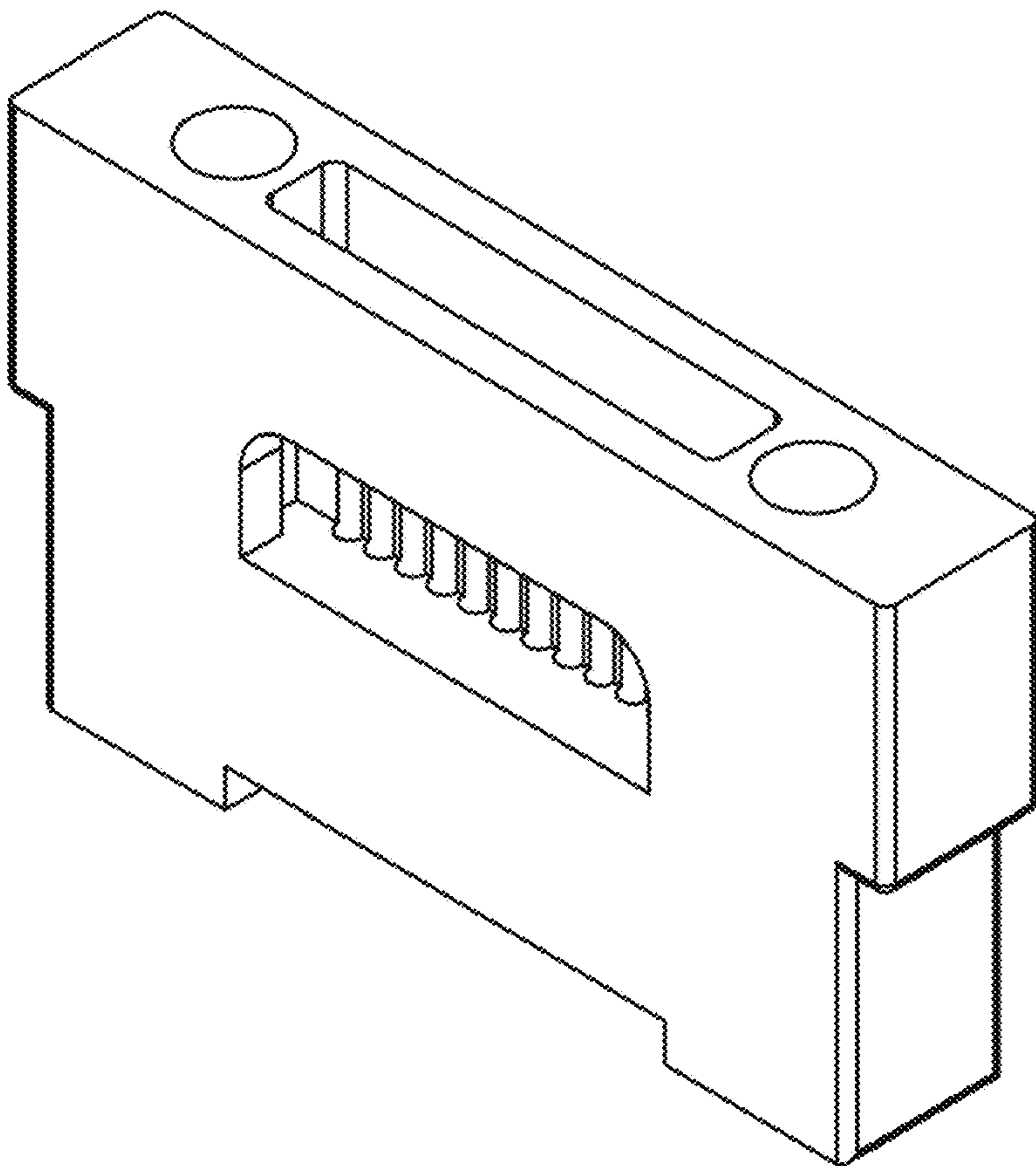


FIG. 38

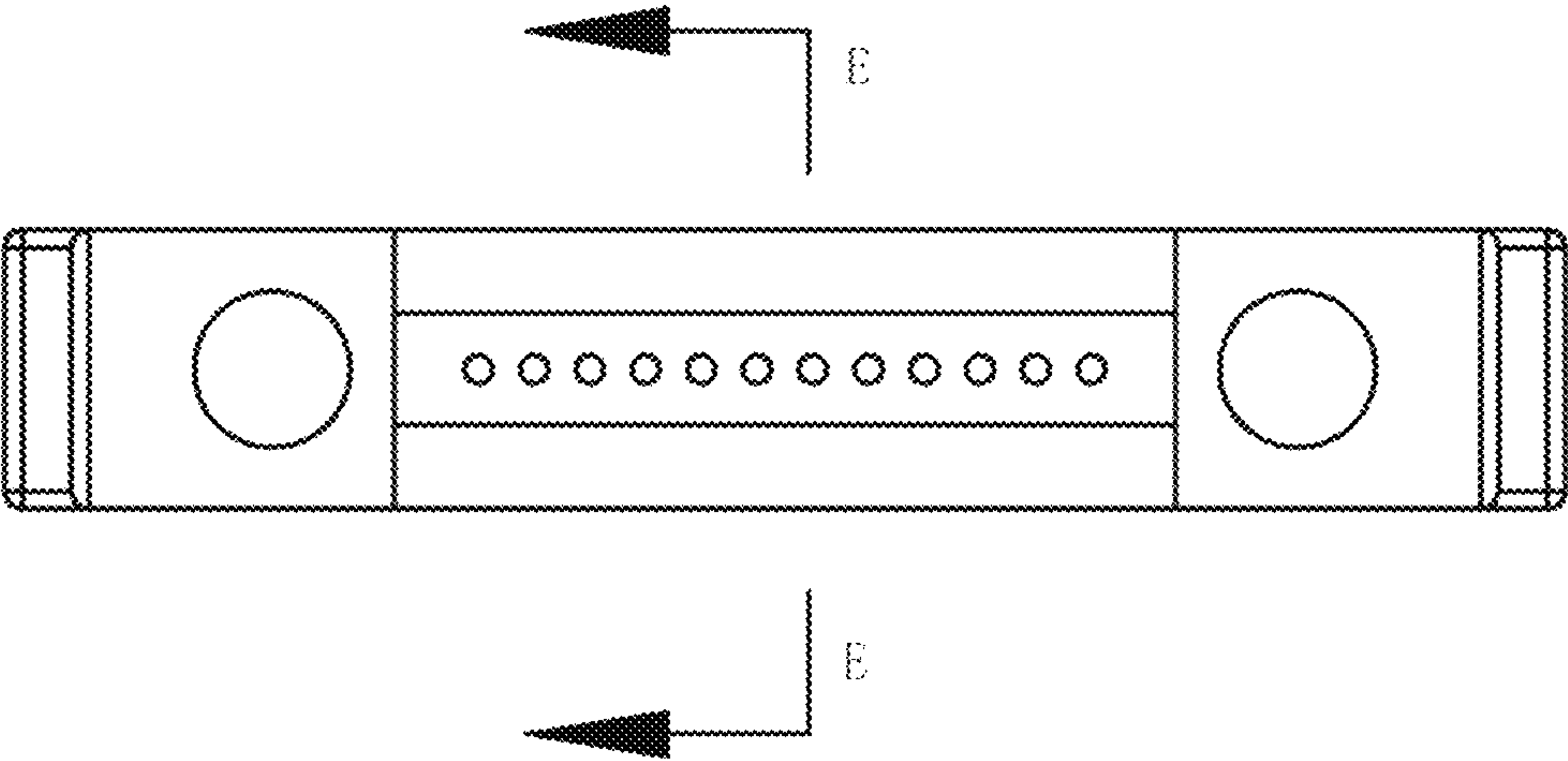


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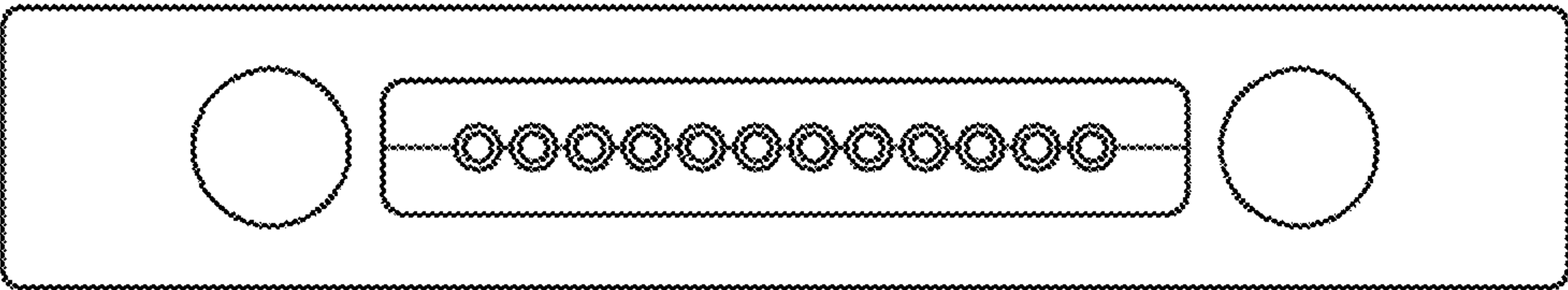


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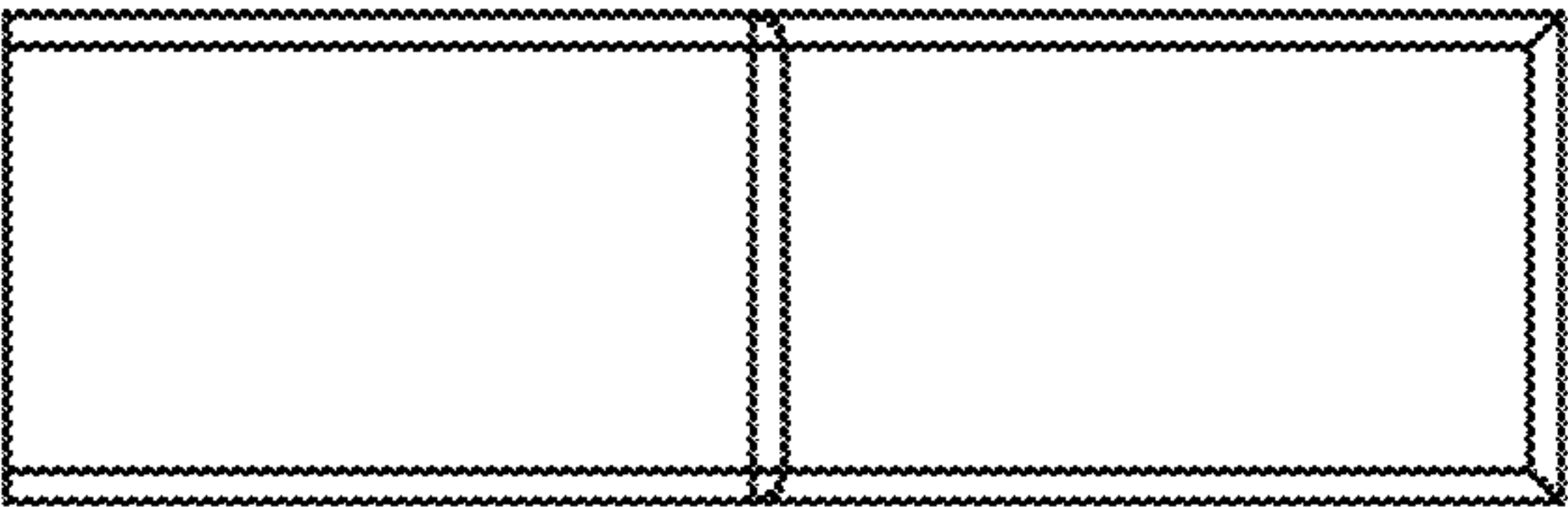


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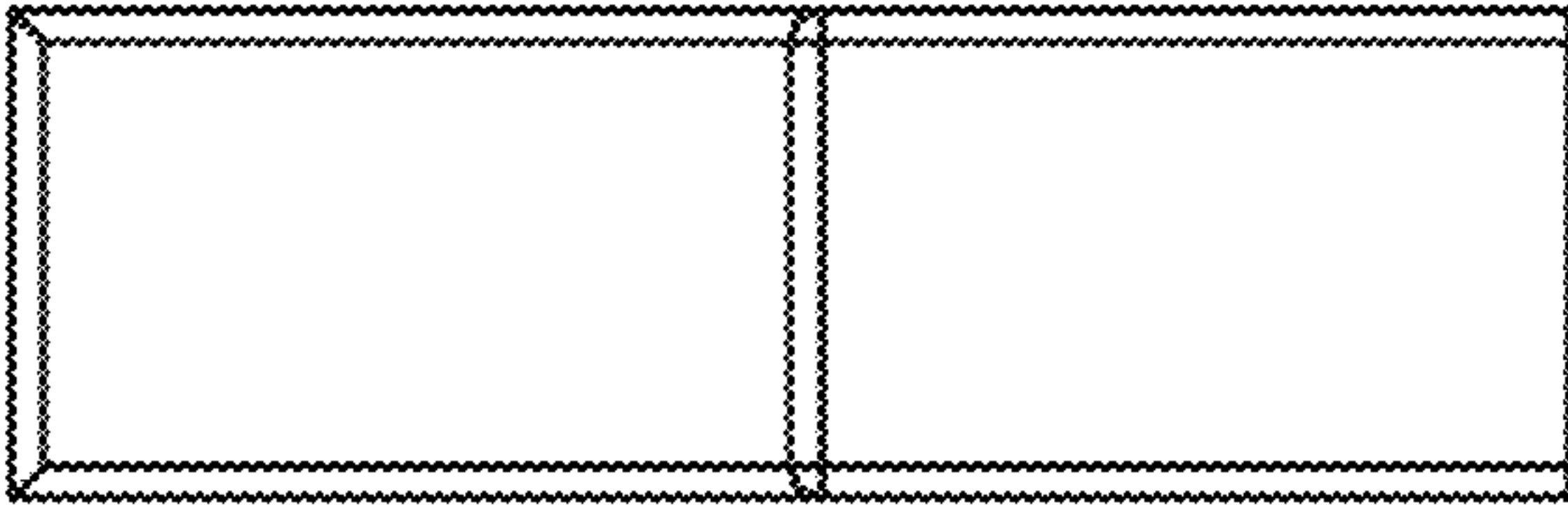


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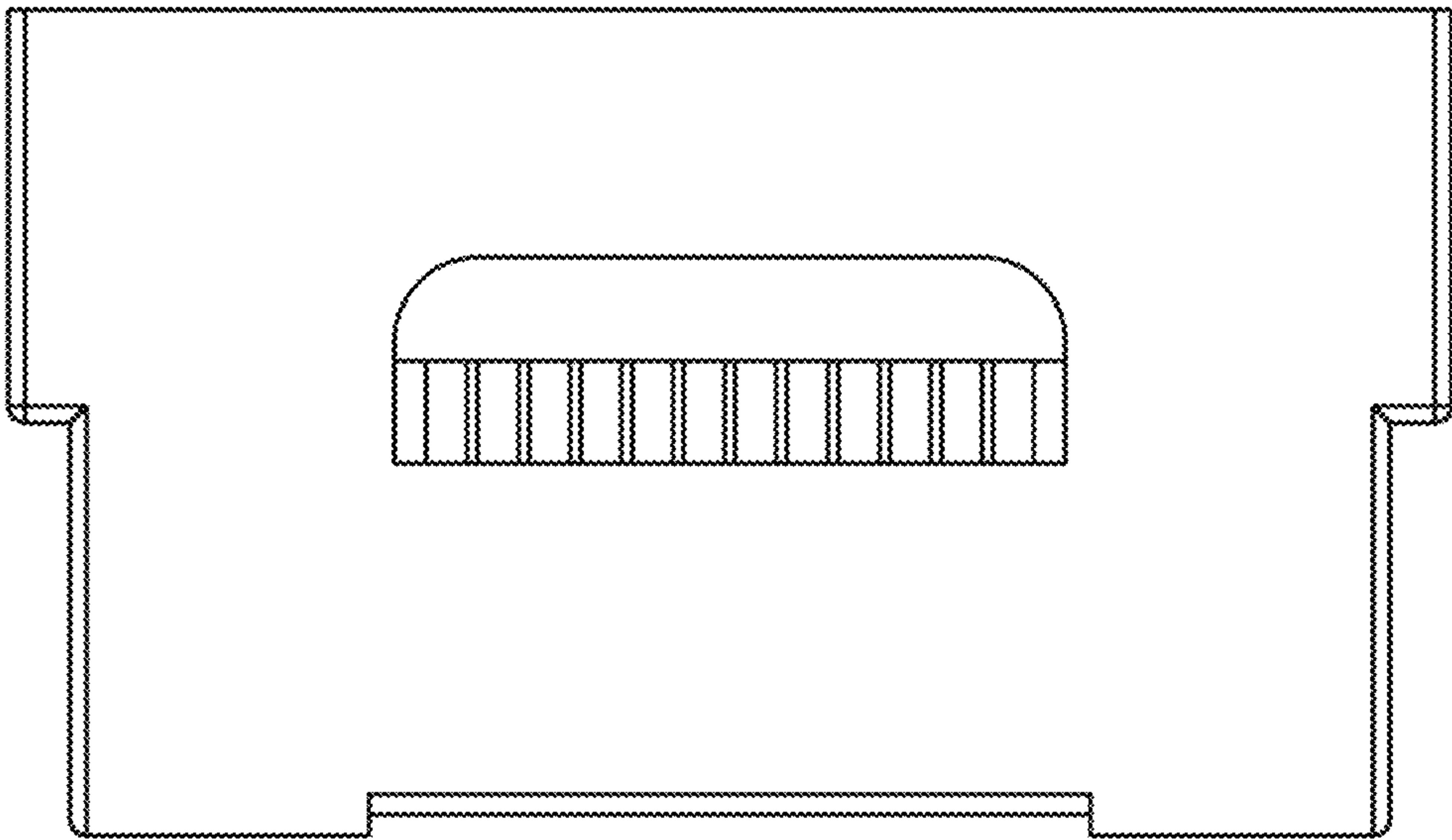


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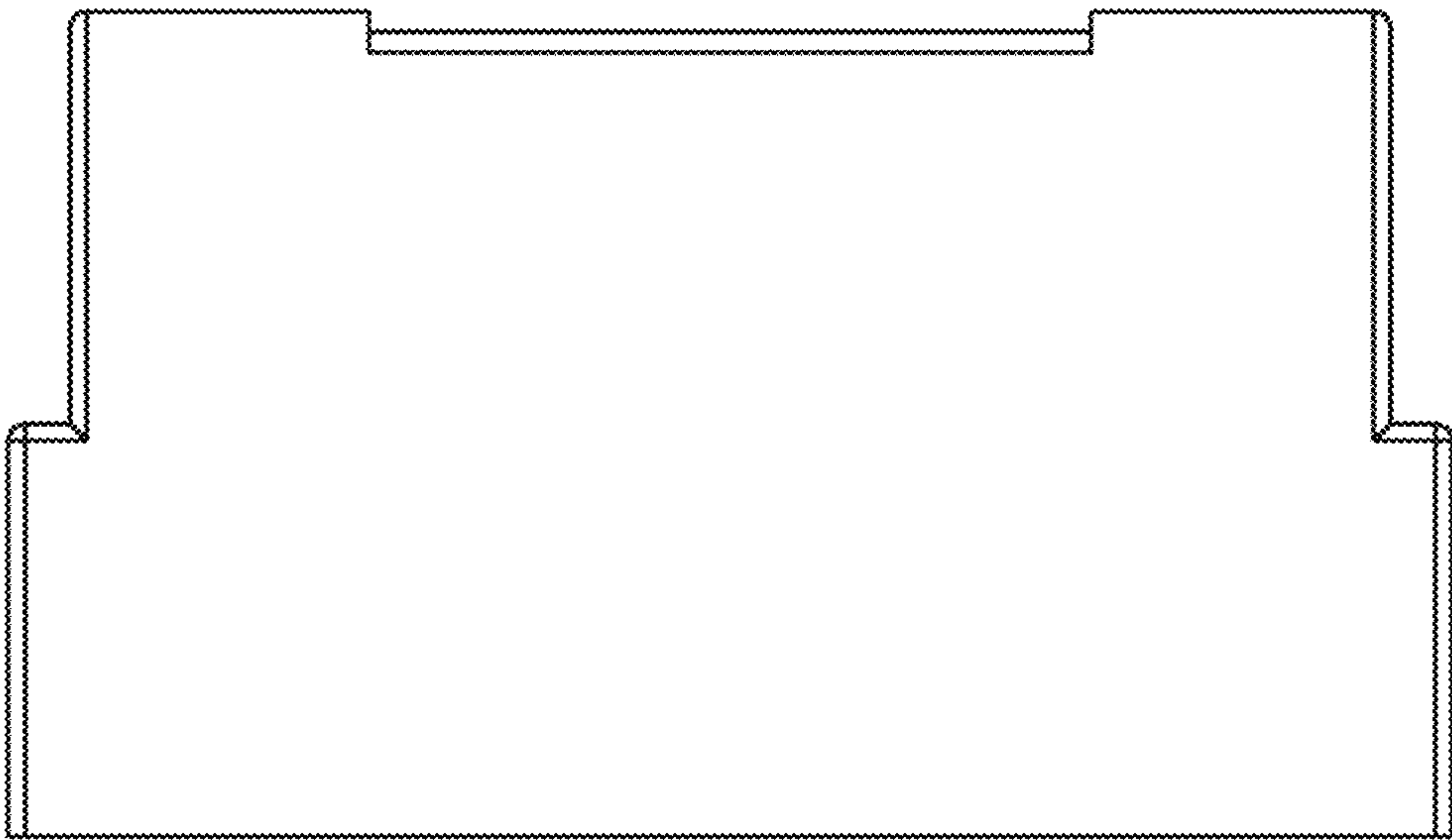


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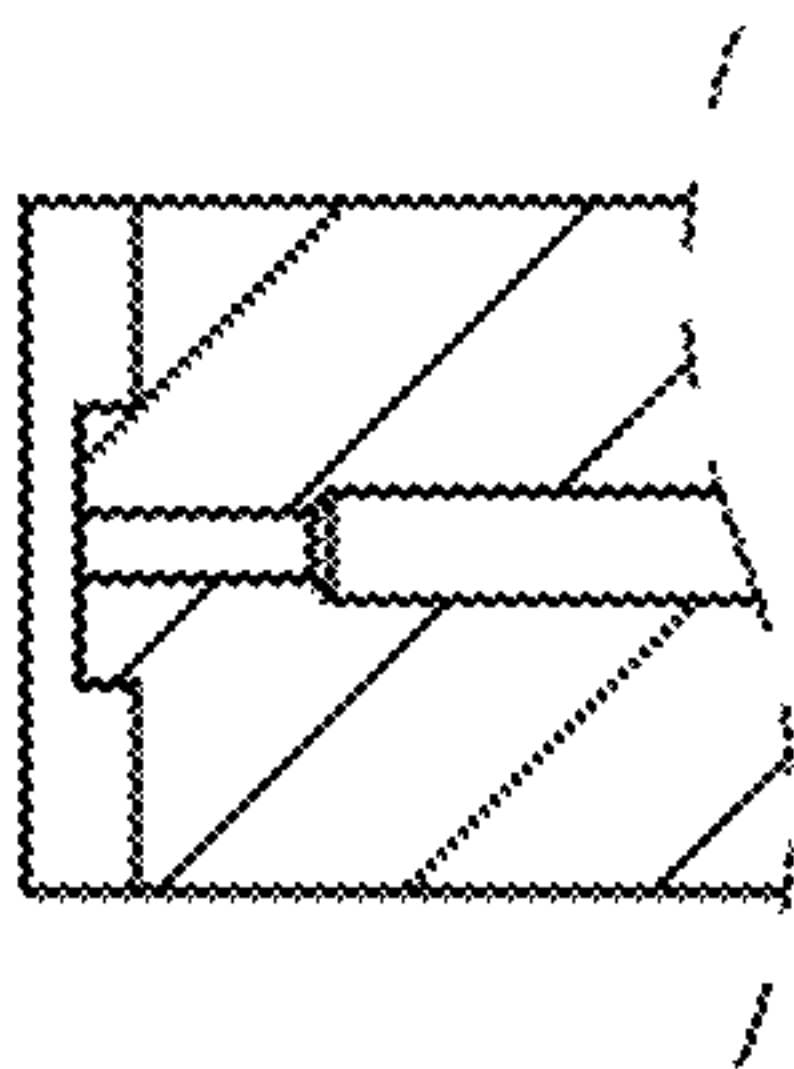


FIG. 45

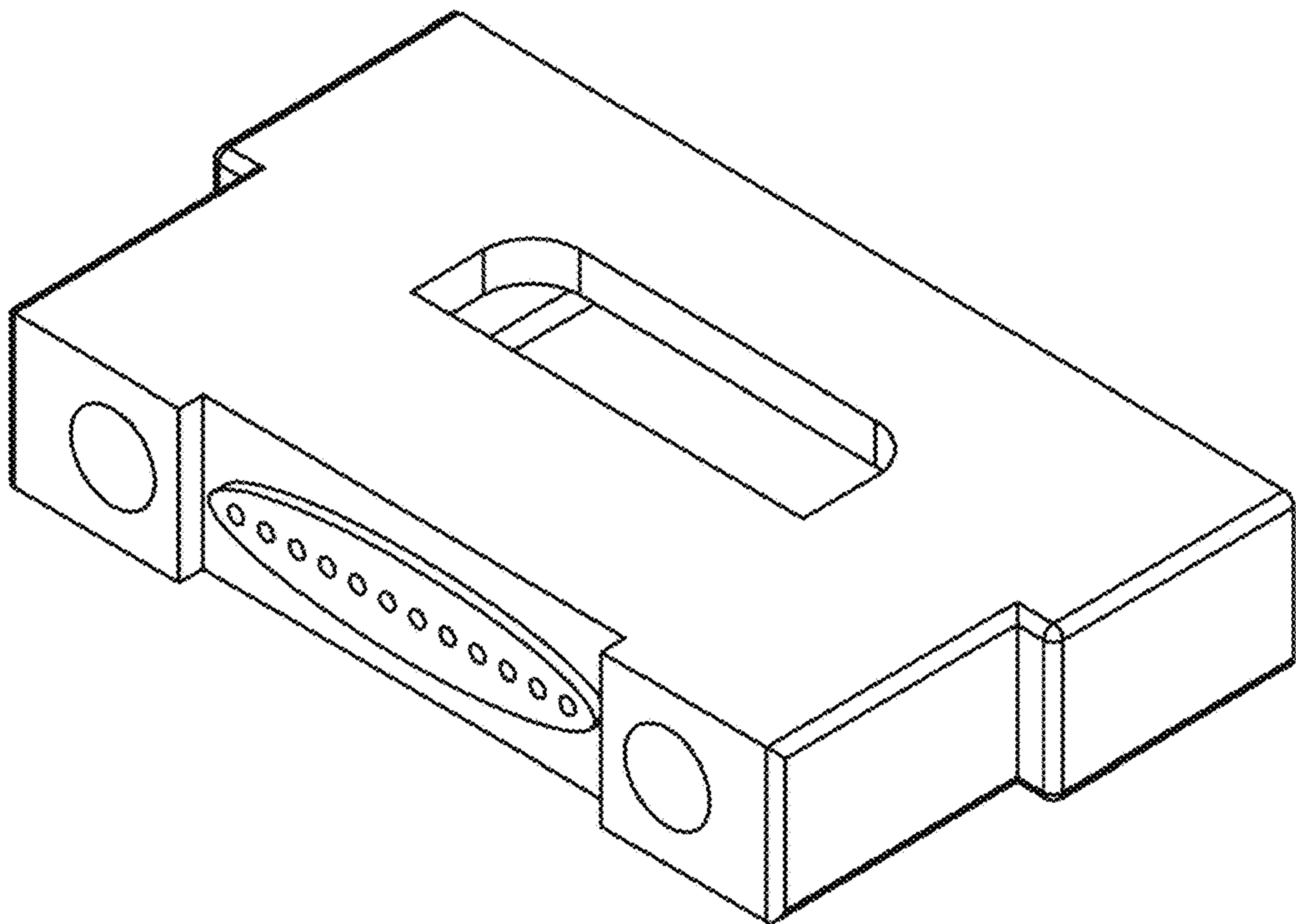


FIG. 46

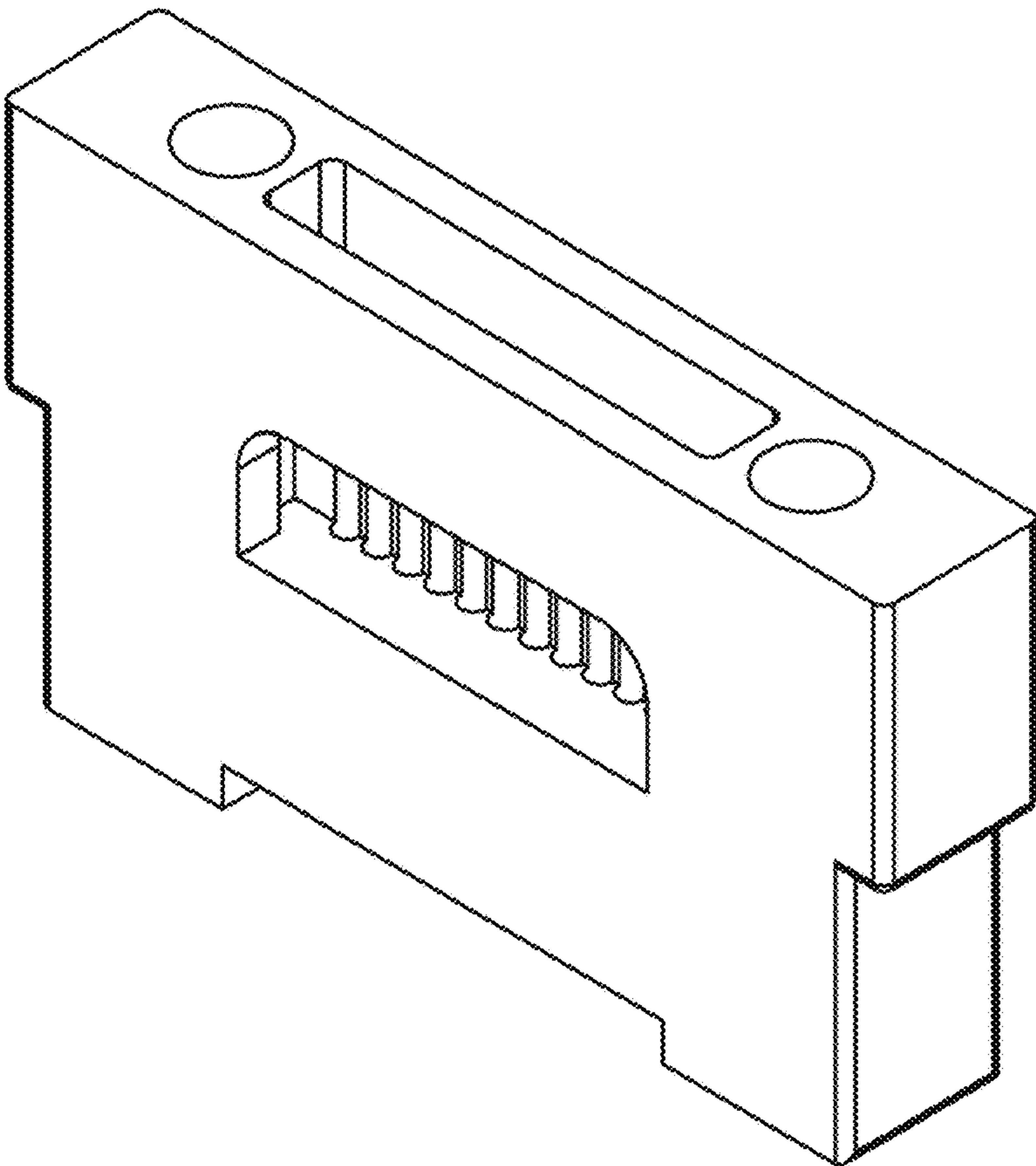


FIG. 47

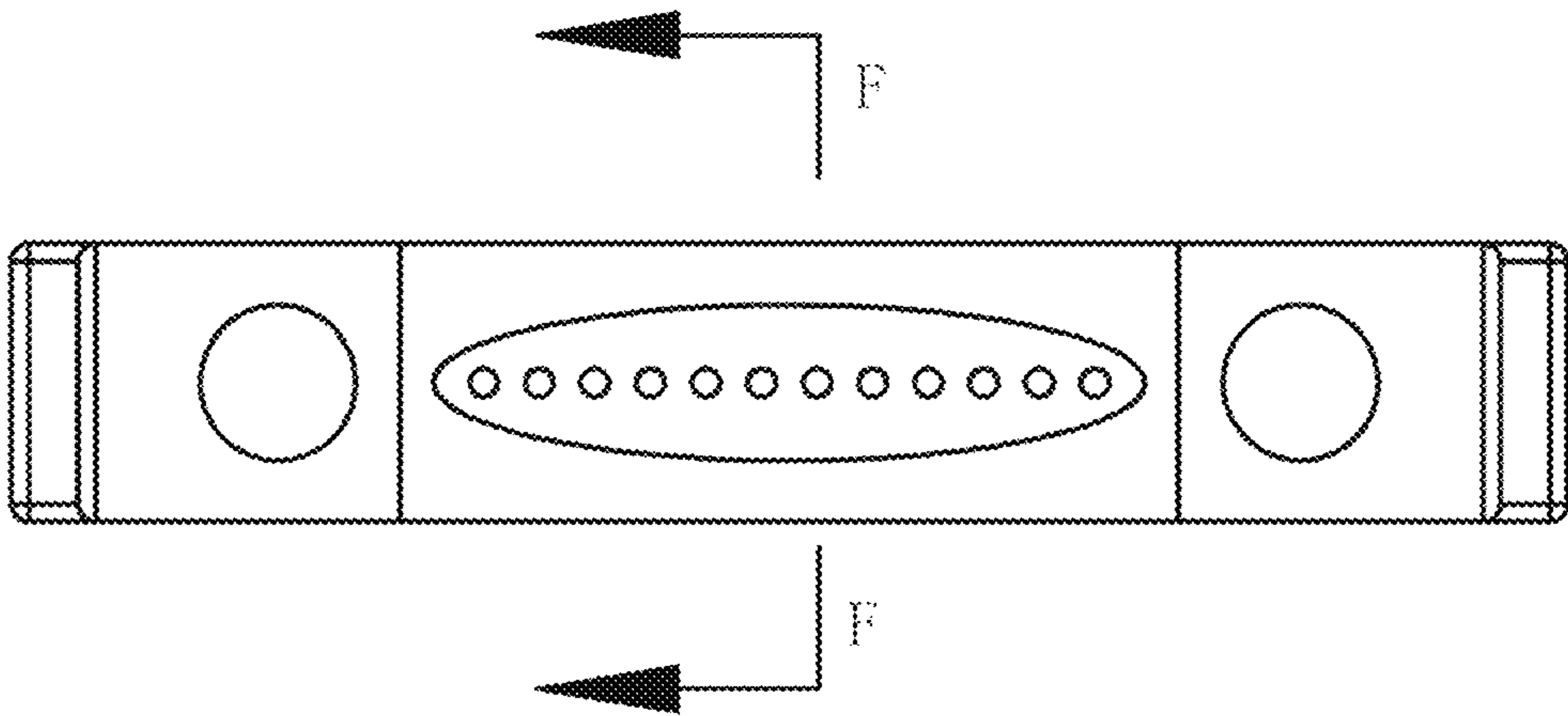


FIG. 48

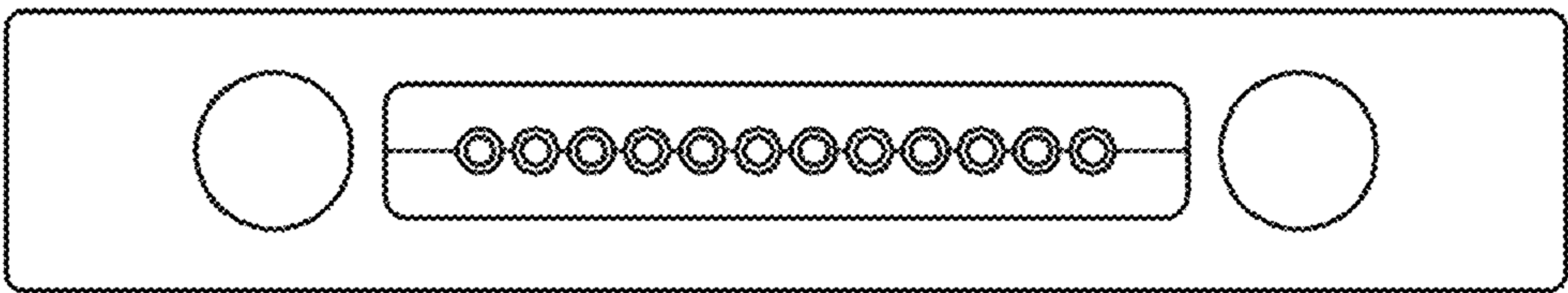


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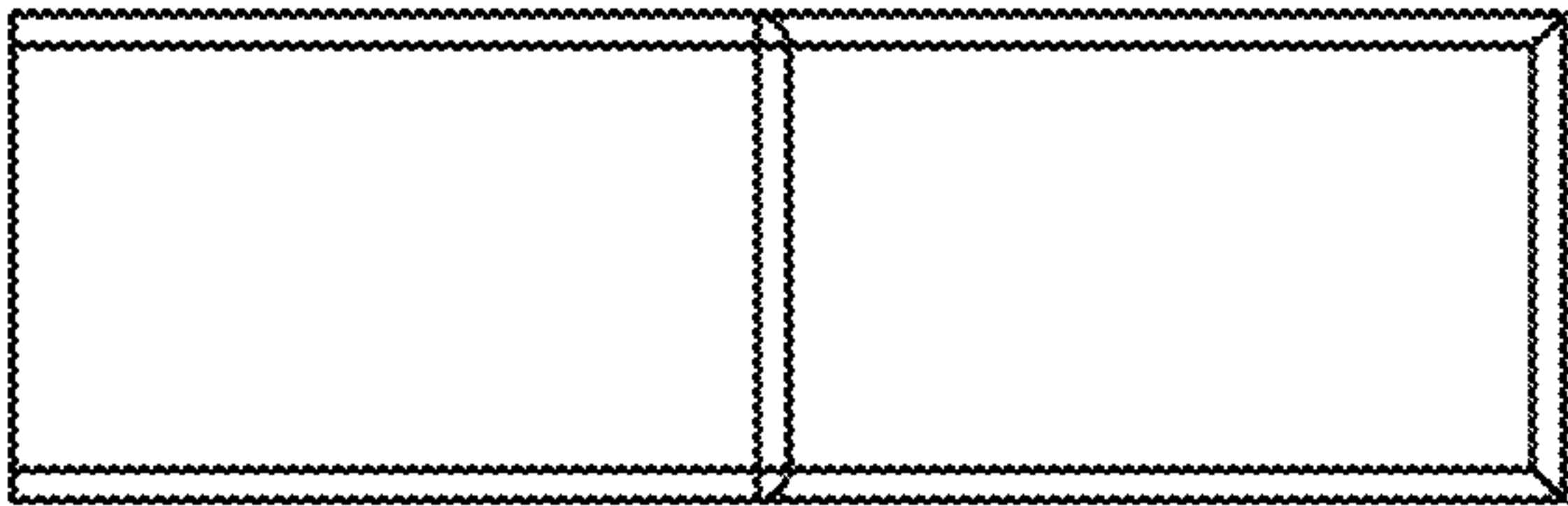


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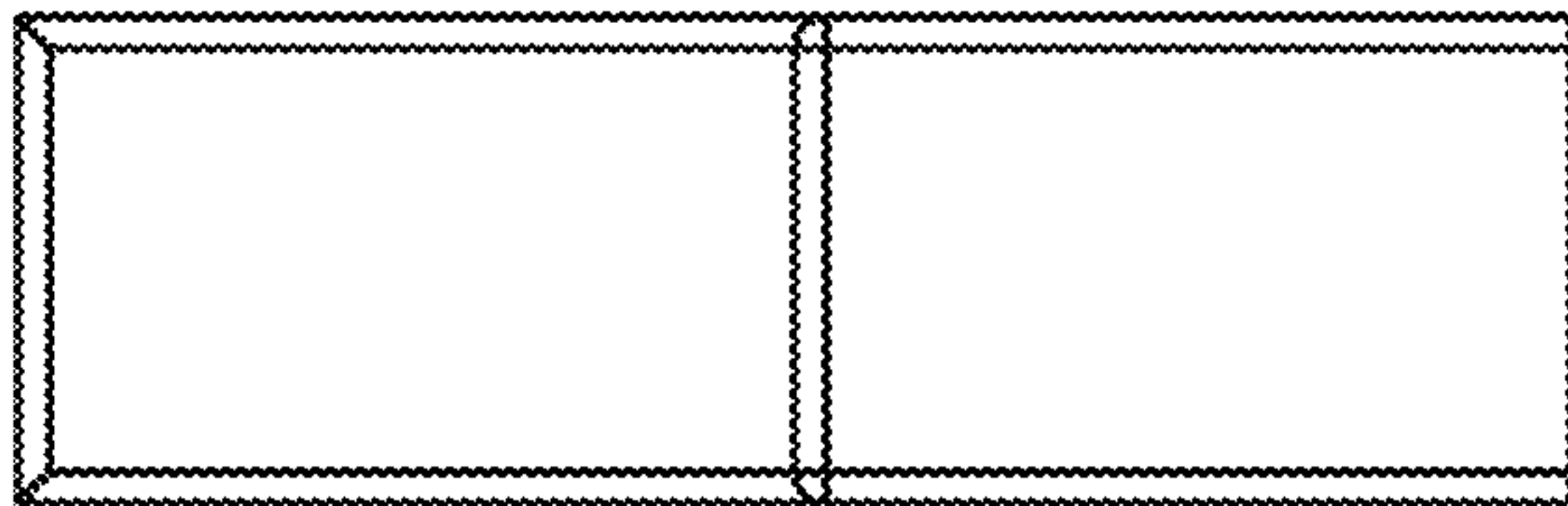


FIG. 51

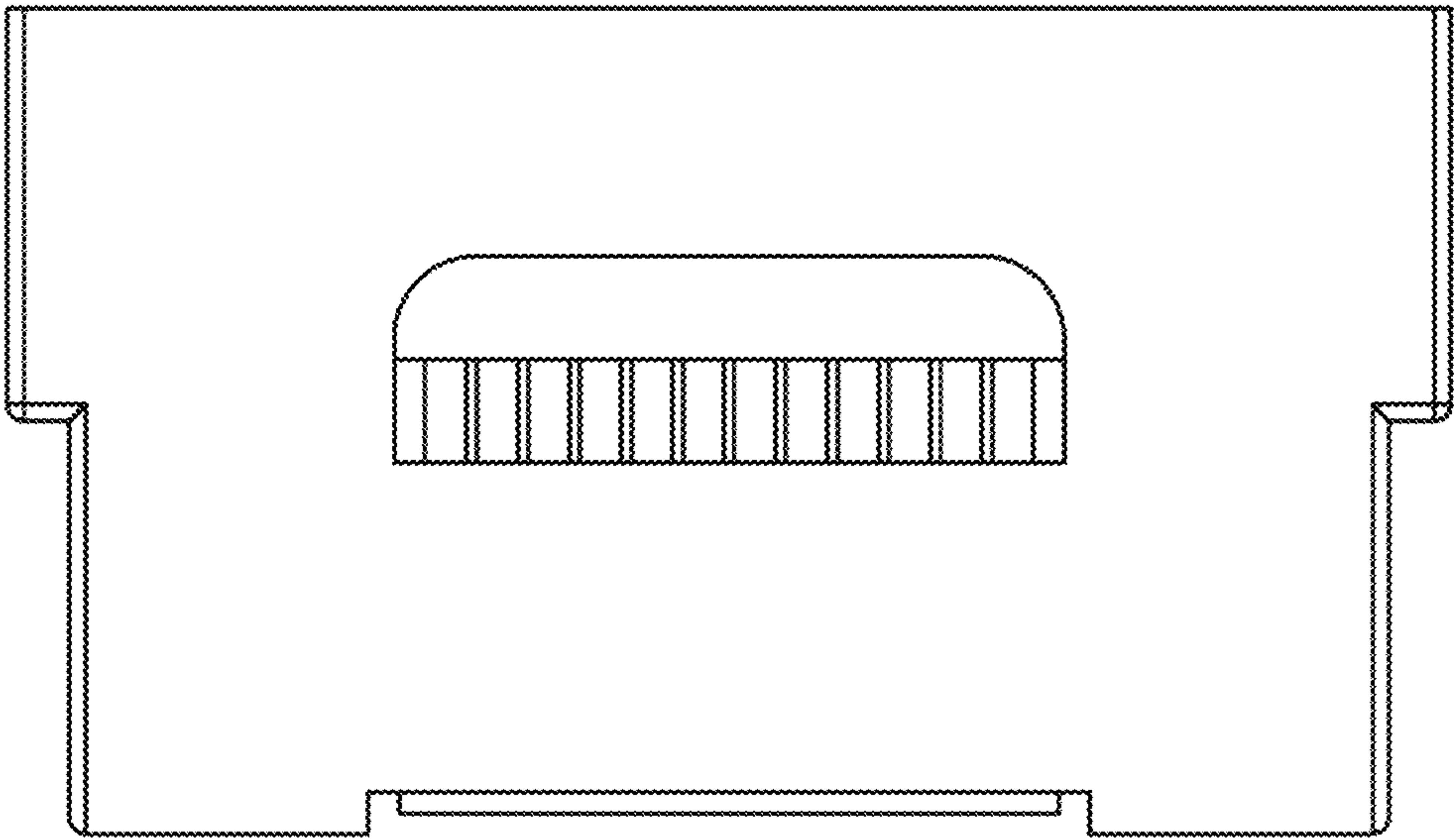


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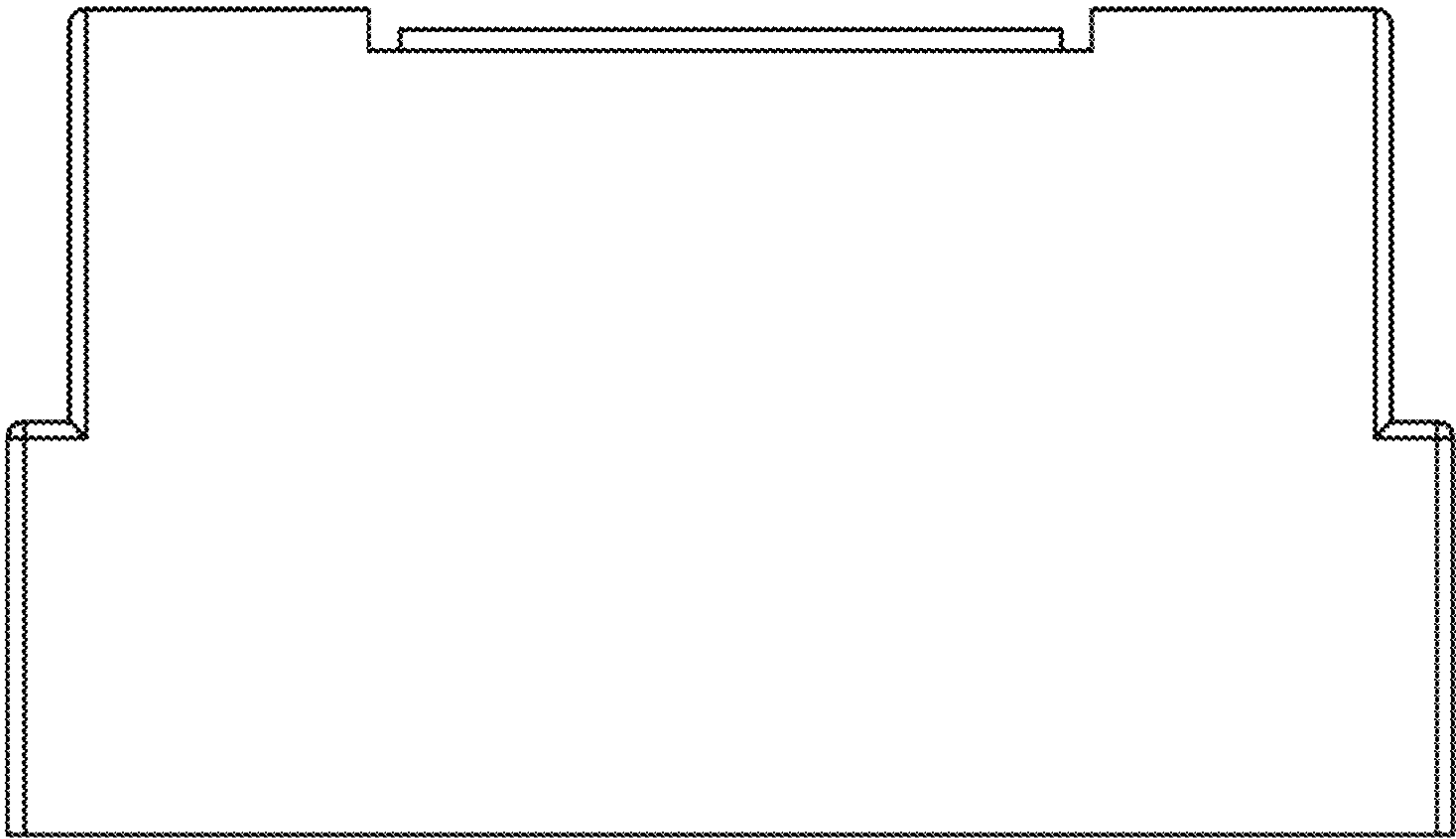


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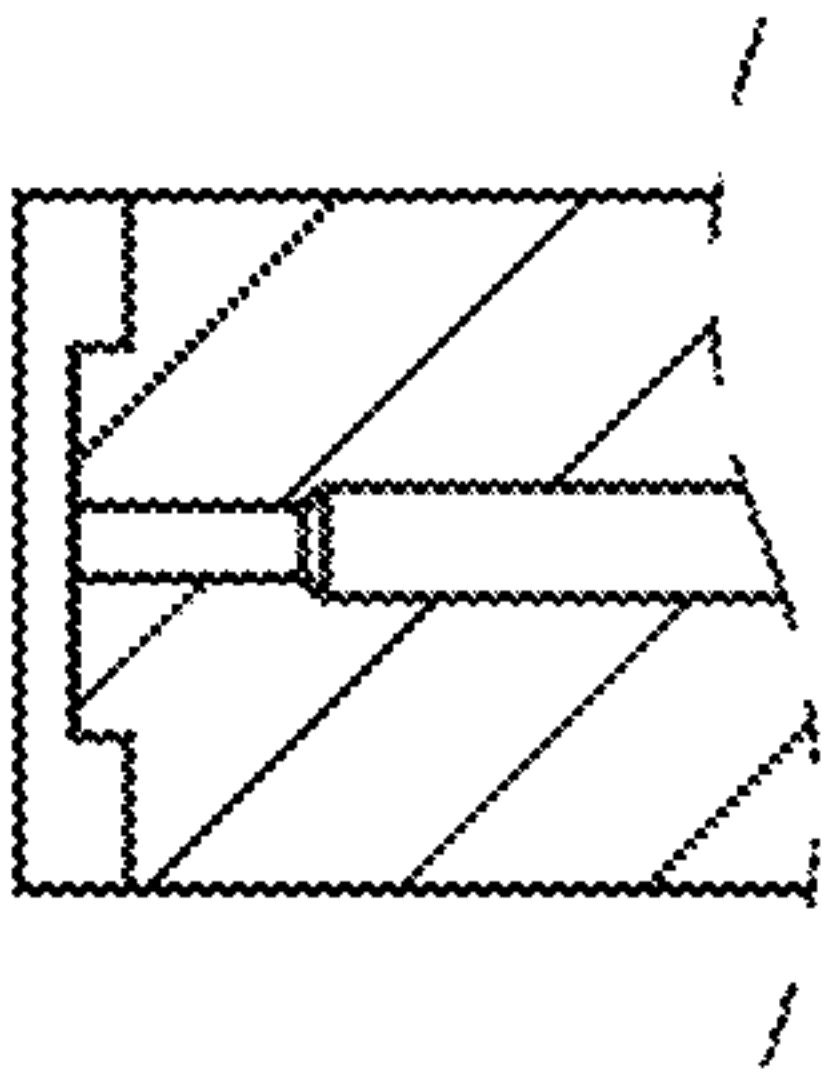


FIG. 54