



US0D1043593S

(12)

United States Design Patent

Tsuji et al.

(10)

Patent No.:

US D1,043,593 S

(45)

Date of Patent:

** Sep. 24, 2024

(54) RELAY SOCKET

(71) Applicant: OMRON Corporation, Kyoto (JP)

(72) Inventors: Shinya Tsuji, Kyoto (JP); Keisuke Yano, Kyoto (JP)

(73) Assignee: OMRON Corporation, Kyoto (JP)

(**) Term: 15 Years

(21) Appl. No.: 29/837,405

(22) Filed: May 5, 2022

(30) Foreign Application Priority Data

Jan. 31, 2022 (JP) 2022-001873 D

(51) LOC (14) Cl. 13-03

(52) U.S. Cl.

USPC D13/159

(58) Field of Classification Search

USPC D13/114, 137.3, 139.6, 159, 173, 178, D13/184, 199

(Continued)

(56) References Cited

U.S. PATENT DOCUMENTS

D573,266 S * 7/2008 Chefren D25/119

D638,804 S * 5/2011 Giordanino D13/159

(Continued)

FOREIGN PATENT DOCUMENTS

CN 303478954 * 12/2015

CN 304029715 * 2/2017

(Continued)

OTHER PUBLICATIONS

Omron P2RF-08-E General Purpose Socket, Posted Date Aug. 13, 2012 [Online], [Retrieved Dec. 19, 2023], Retrieved From Internet,

<https://www.amazon.sa/-/en/Omron-P2RF-08-General-Mounting-Terminal/dp/B000LDI4OA> (Year: 2012).*

Primary Examiner — Leanne Was-Englehart
Assistant Examiner — Devin Kelly
(74) Attorney, Agent, or Firm — Capitol City TechLaw

(57) CLAIM

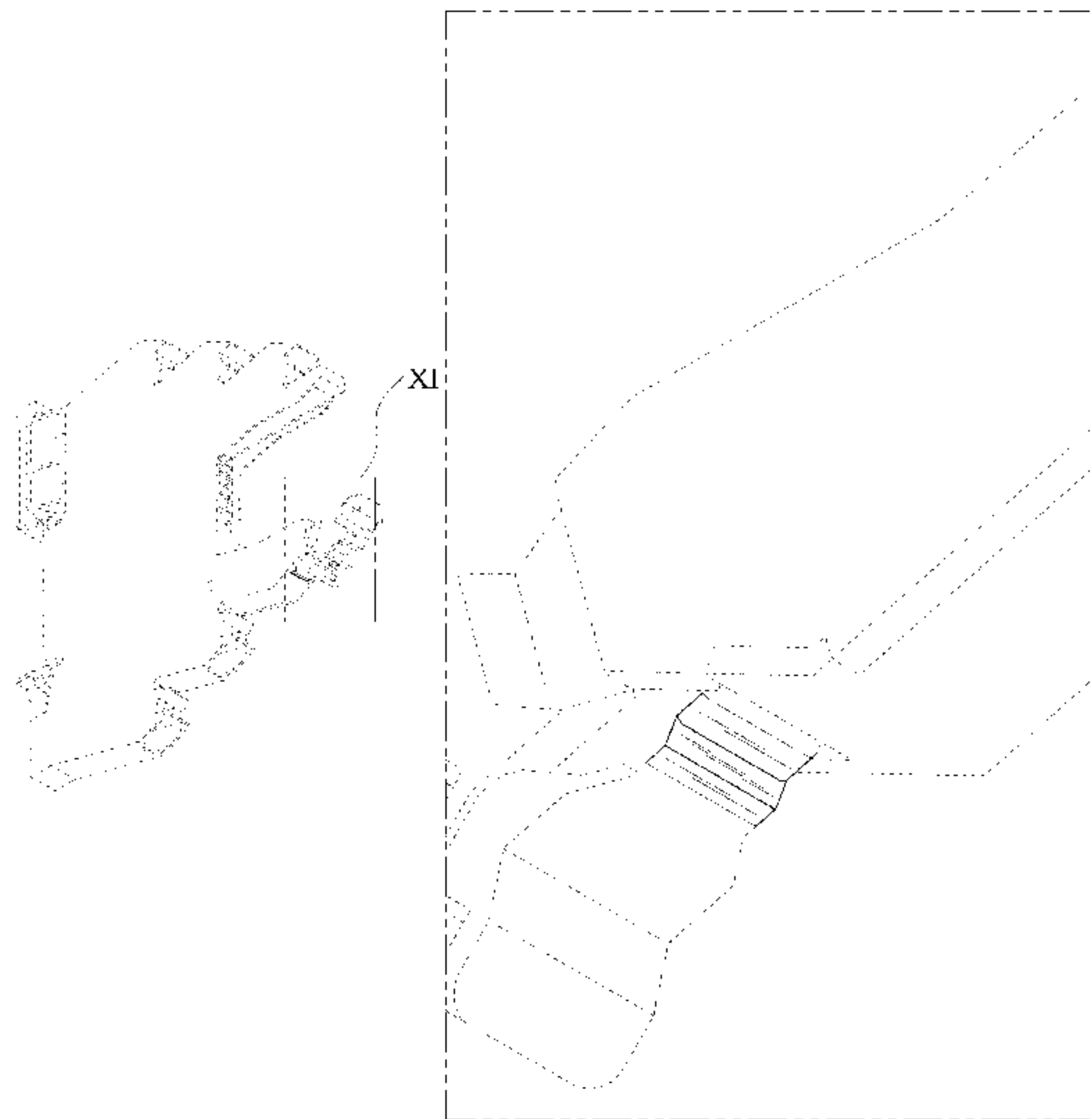
The ornamental design for a relay socket, as shown and described.

DESCRIPTION

FIG. 1 is a bottom, front, and left side perspective view of a relay socket, showing our new design;
FIG. 2 is a bottom, rear, and right side perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a top view thereof;
FIG. 8 is a bottom view thereof;
FIG. 9 is a bottom, front, and left side perspective view thereof, shown in an alternate position of use;
FIG. 10 is a bottom, rear, and right side perspective view thereof, shown in the alternate position of use;
FIG. 11 is an enlarged view of the circumscribed area XI in FIG. 1;
FIG. 12 is an enlarged view of the circumscribed area XII in FIG. 2;
FIG. 13 is an enlarged view of the circumscribed area XIII in FIG. 9; and,
FIG. 14 is an enlarged view of the circumscribed area XIV in FIG. 10.

The dashed broken lines in the figures show portions of the relay socket that form no part of the claimed design. The dot-dashed broken lines in the figures represent boundaries and form no part of the claimed design. The dot-dot-dashed broken lines in FIGS. 1, 2, and 9-14 circumscribe the enlarged views and form no part of the claimed design.

1 Claim, 9 Drawing Sheets



(58) **Field of Classification Search**
CPC H01H 50/00; H01H 50/36; H01H 50/56;
H01H 49/00; H01H 2050/446; H01H
1/60
See application file for complete search history.

D997,889 S * 9/2023 Winter D13/160
2002/0132504 A1 * 9/2002 Mori H01R 13/639
439/160
2019/0288414 A1 * 9/2019 Masaki H01R 9/2608

(56) **References Cited**
U.S. PATENT DOCUMENTS

D700,897 S * 3/2014 Min D13/159
D717,636 S * 11/2014 Stanley D8/363
D732,483 S * 6/2015 Min D13/159
D792,352 S * 7/2017 Masaki D13/159
10,511,109 B2 * 12/2019 Masaki H01R 9/2608
D877,705 S * 3/2020 Masaki D13/159
10,587,059 B2 * 3/2020 Masaki H01R 9/26
D881,824 S * 4/2020 Masaki D13/159
D920,929 S * 6/2021 Mueller D13/159
D922,963 S * 6/2021 Wu D13/159
11,710,937 B2 * 7/2023 Utsunomiya H01R 4/48185
439/586

FOREIGN PATENT DOCUMENTS

CN 304559444 * 3/2018
CN 305066110 * 3/2019
CN 306730187 * 8/2021
CN 306745681 * 8/2021
CN 307048258 * 1/2022
CN 307748599 * 12/2022
CN 307873538 * 2/2023
CN 308297733 * 10/2023
JP D1445717 * 7/2012
JP D1686308 * 5/2021
JP D1693304 * 8/2021
JP D1724864 * 9/2022

* cited by examiner

FIG. 1

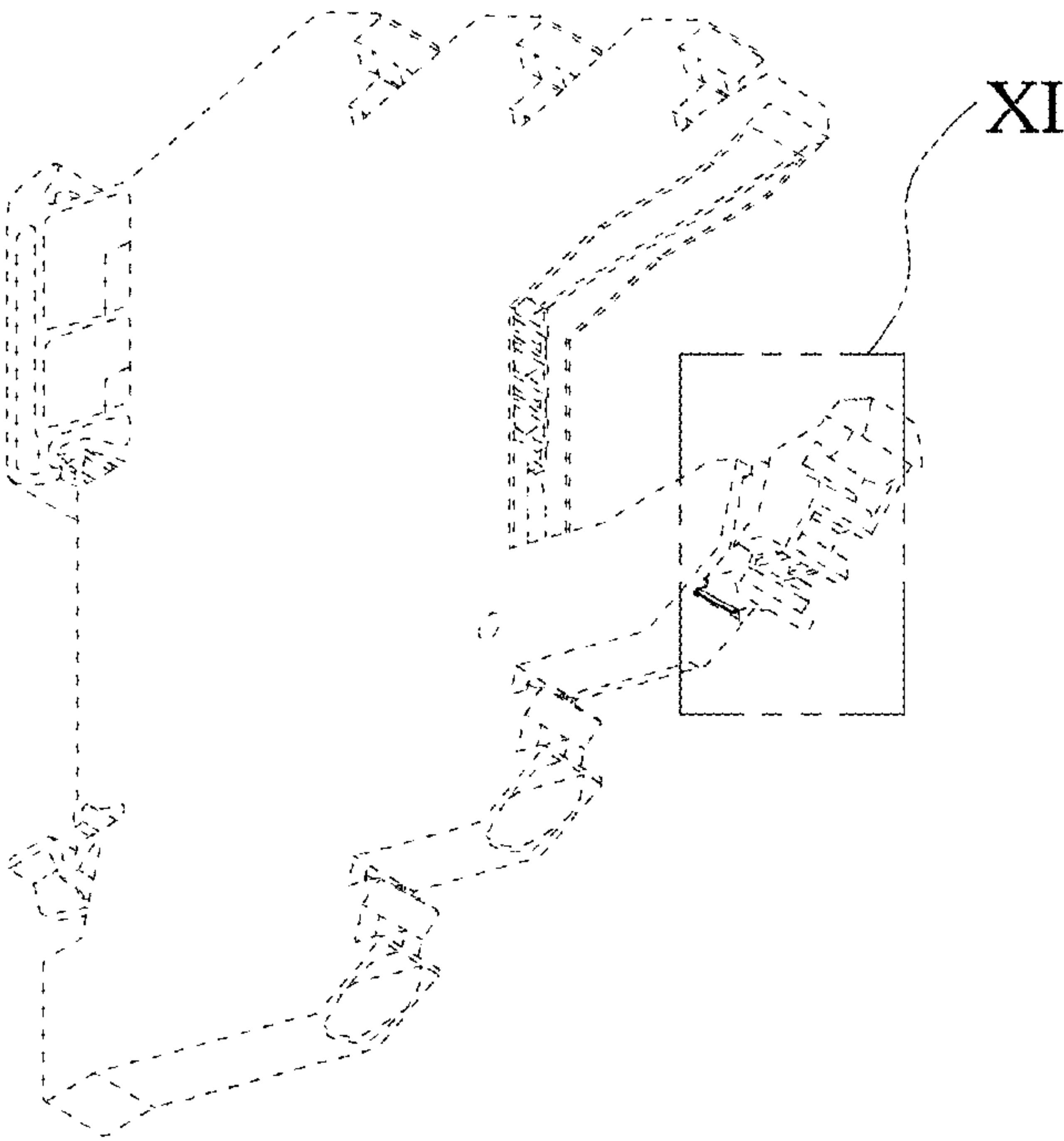


FIG. 2

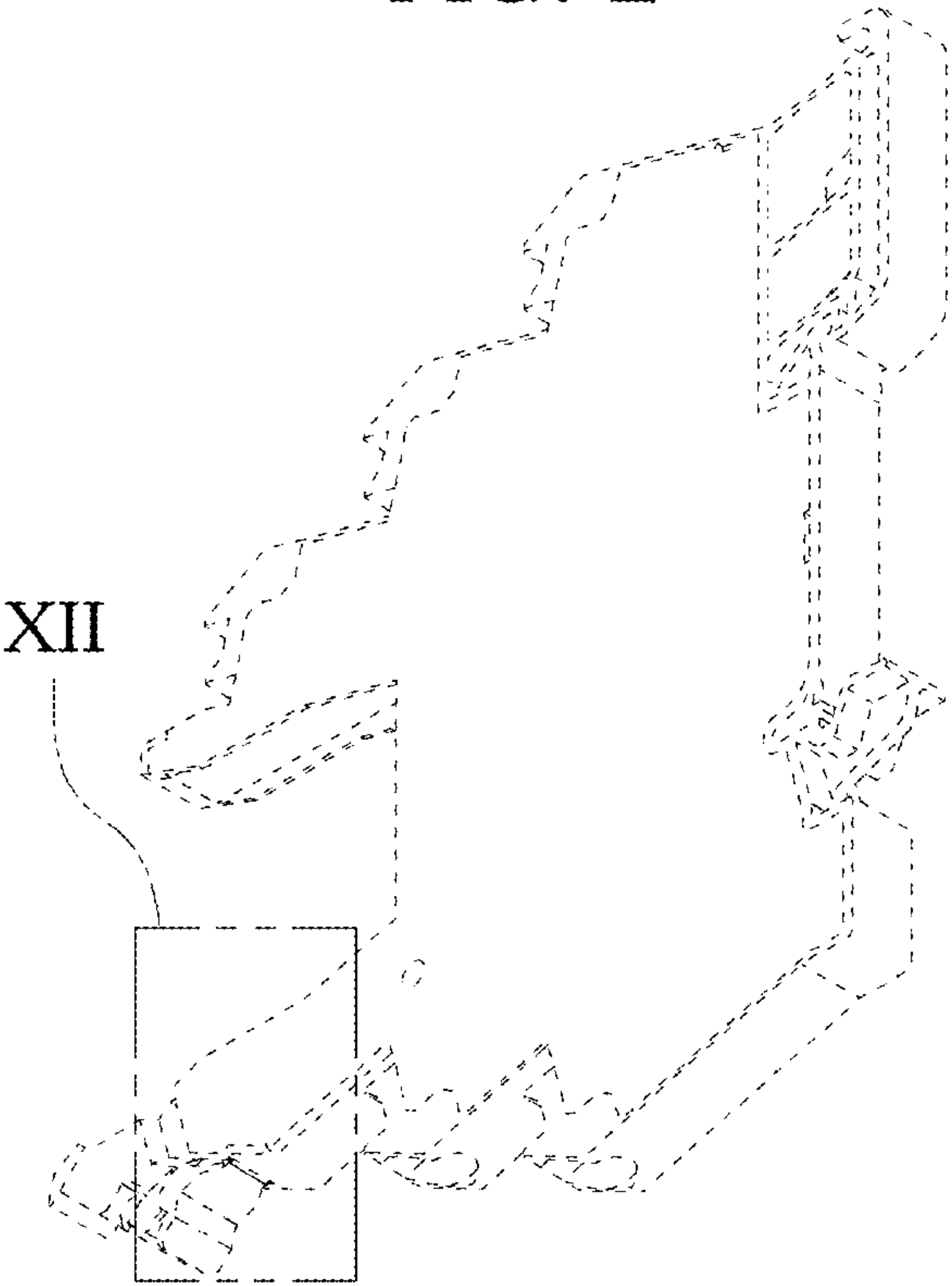


FIG. 3



FIG. 4

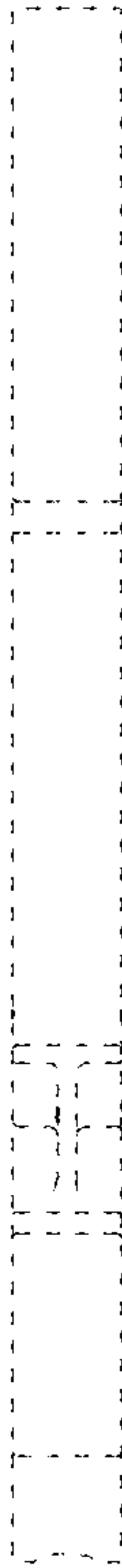


FIG. 5

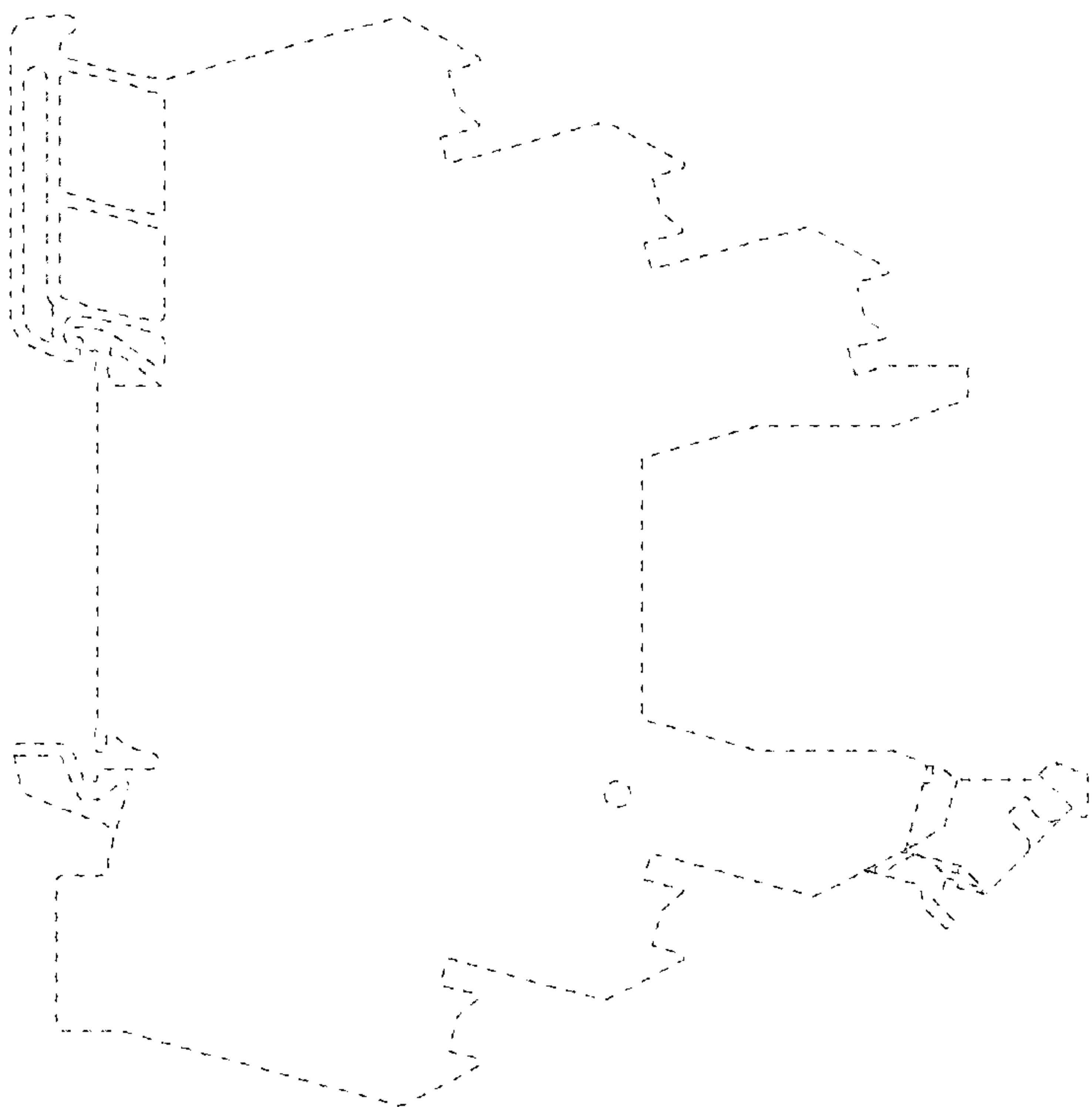


FIG. 6

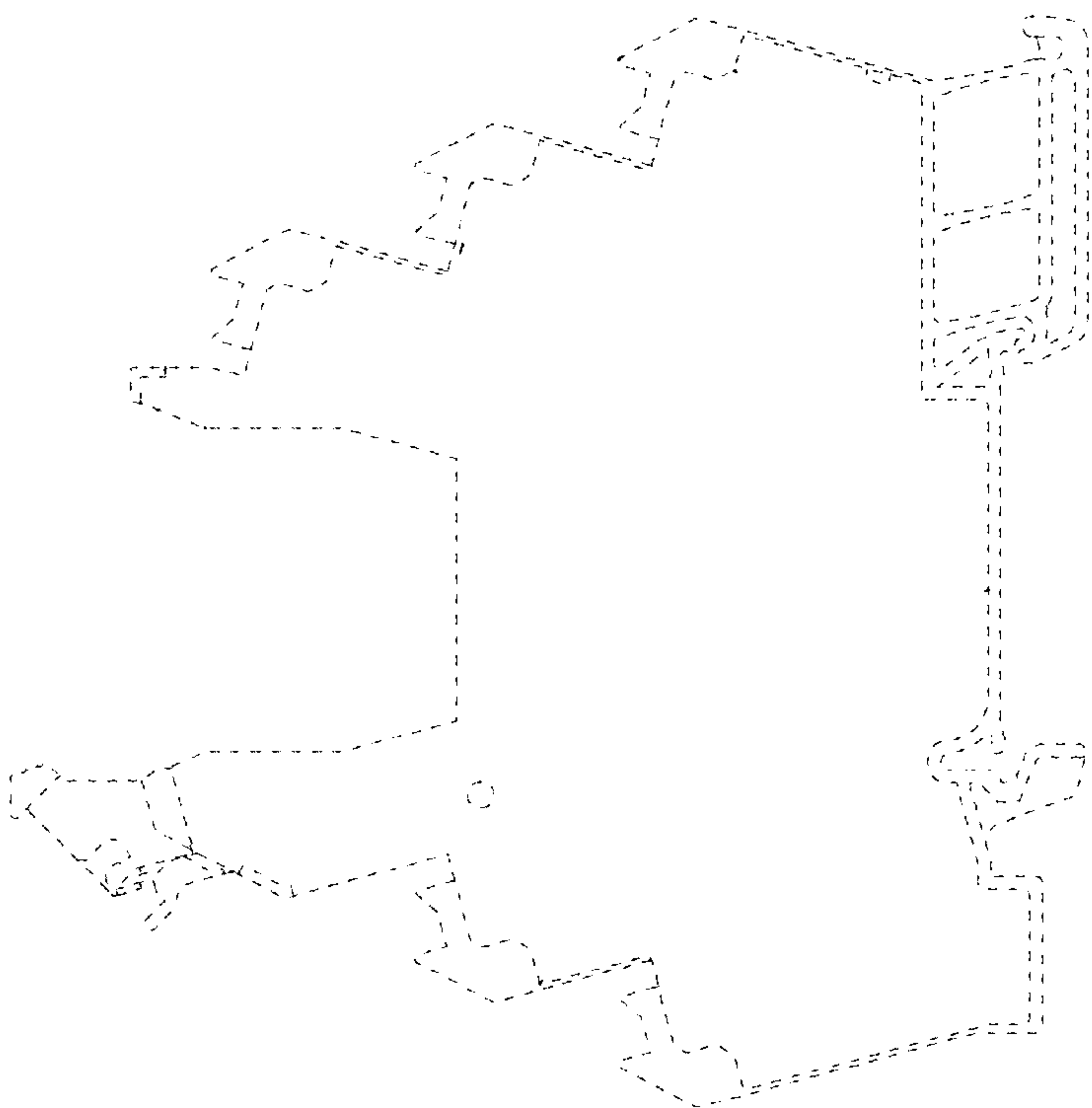


FIG. 7

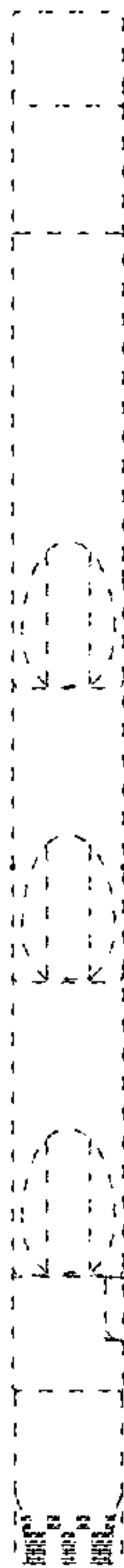


FIG. 8

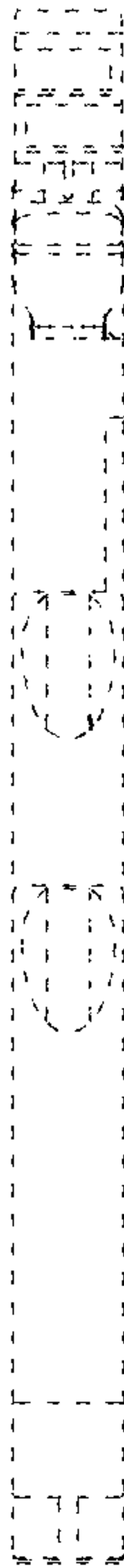


FIG. 9

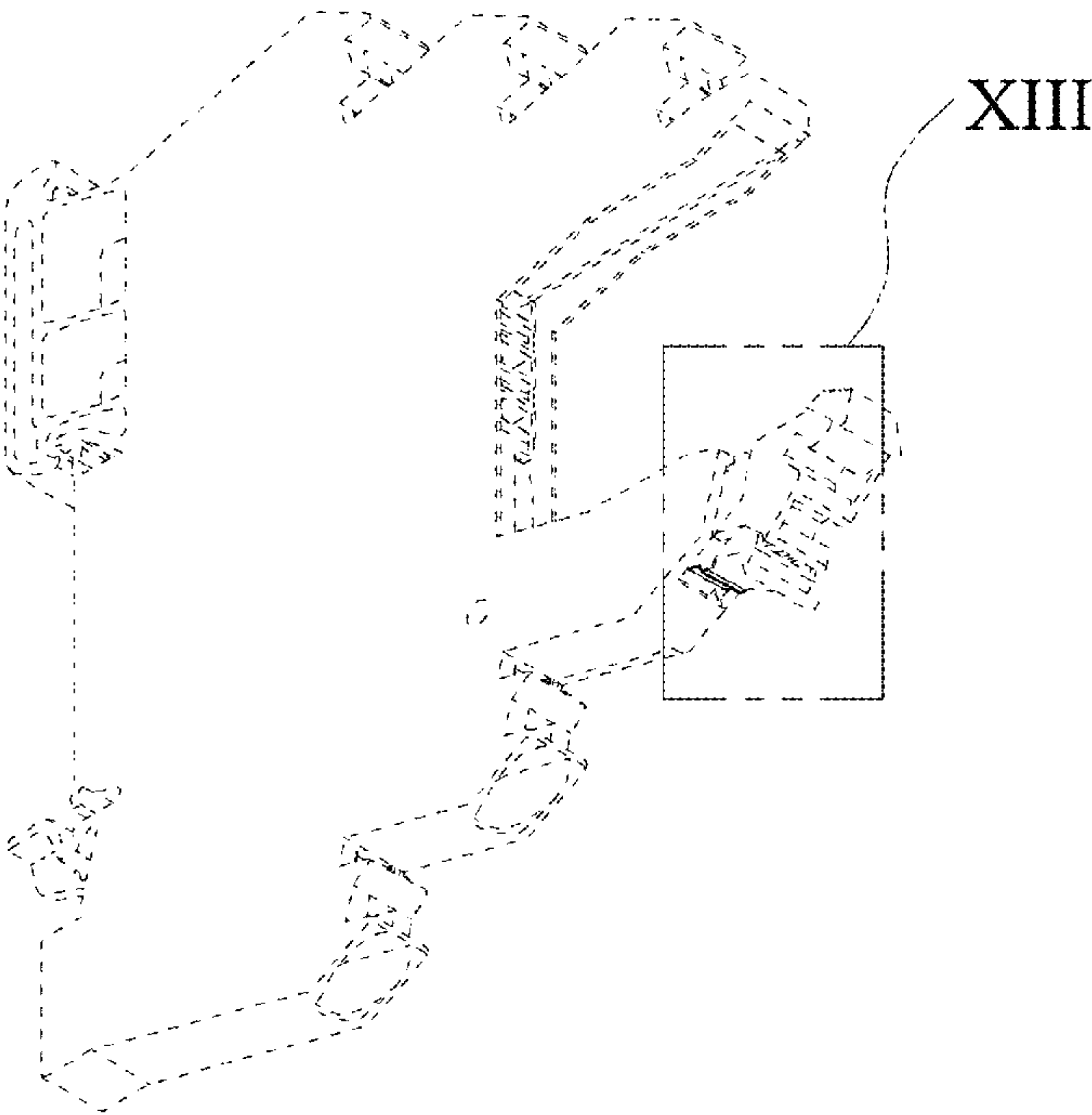


FIG. 10

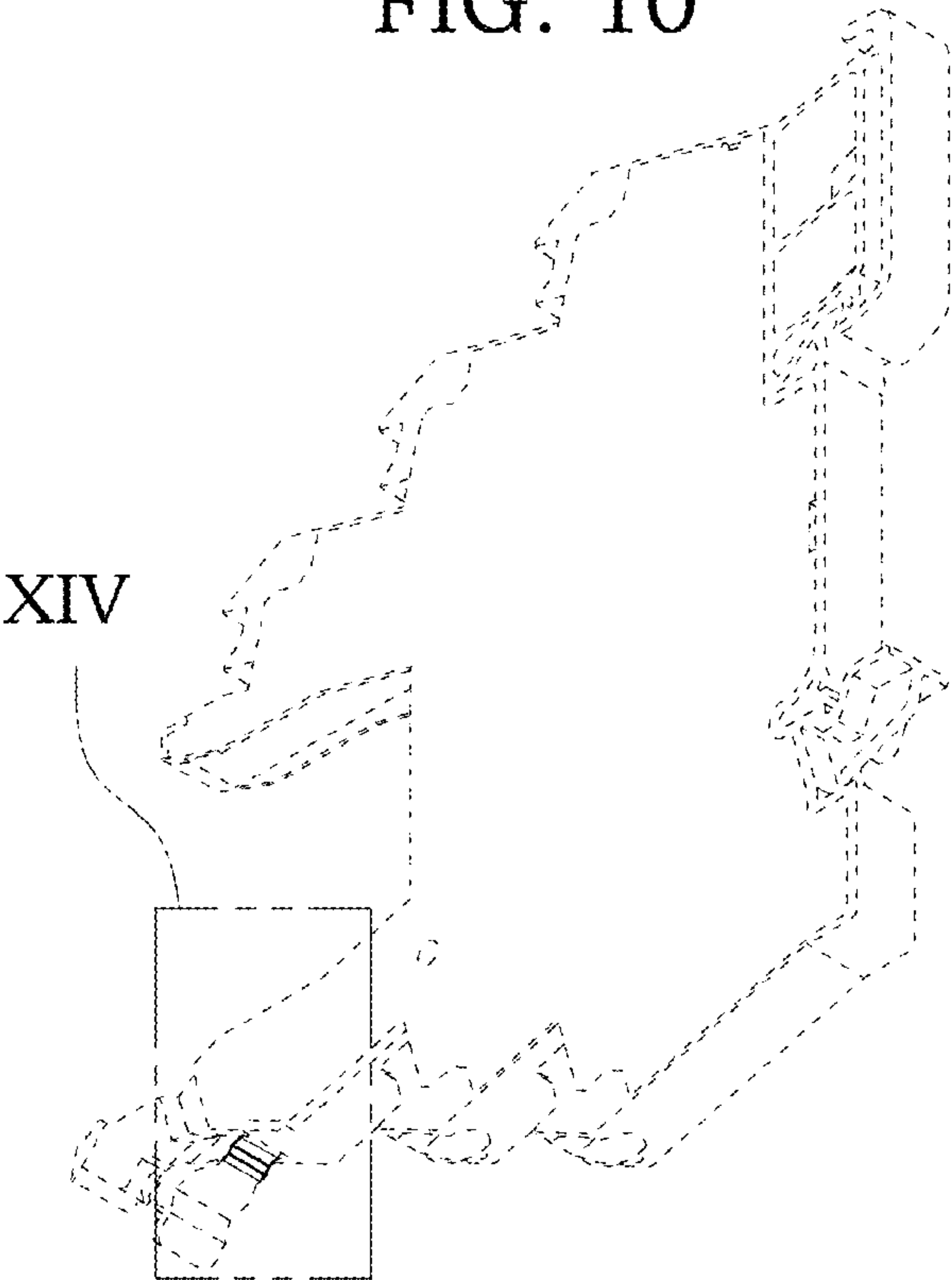


FIG. 11

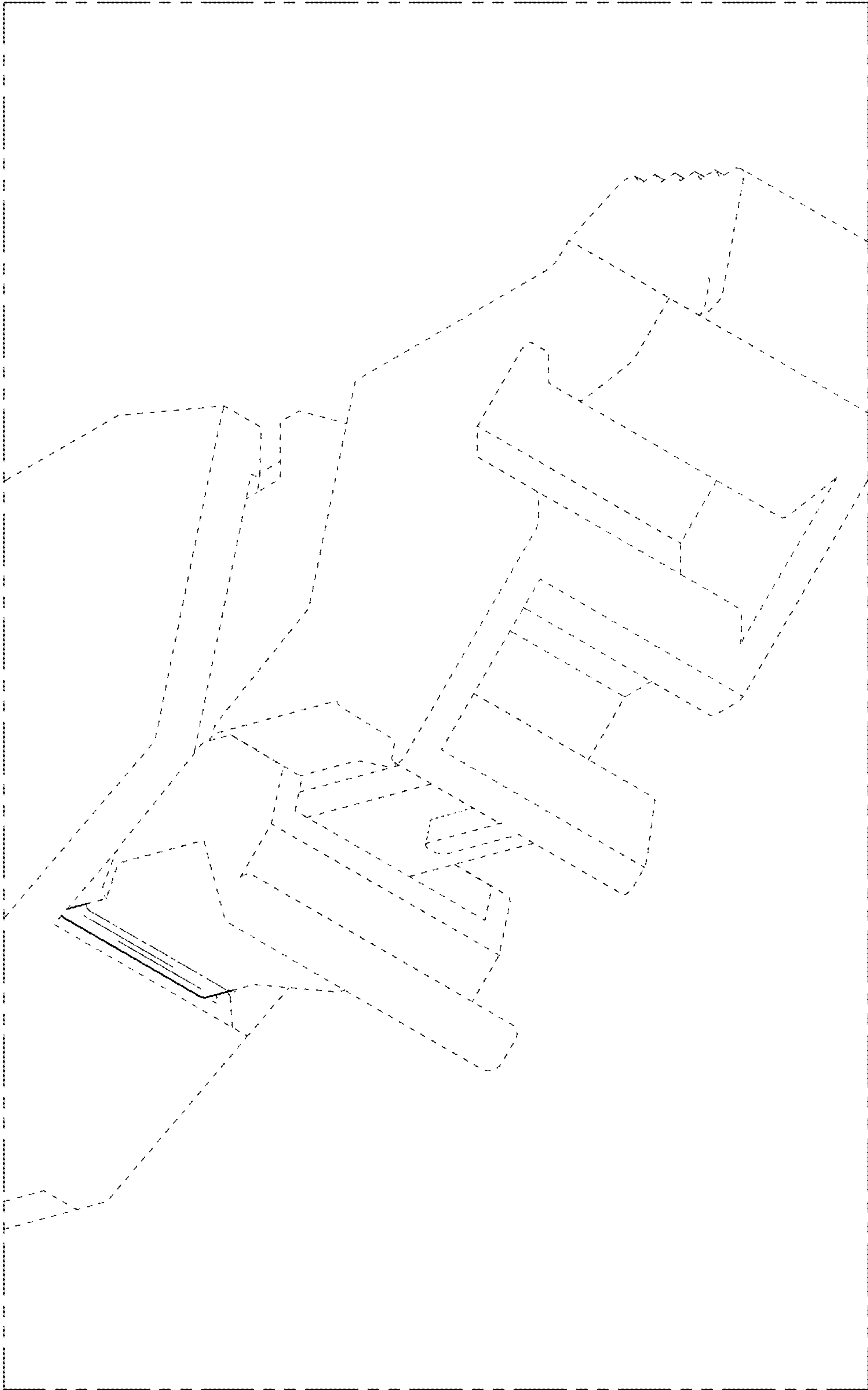


FIG. 12

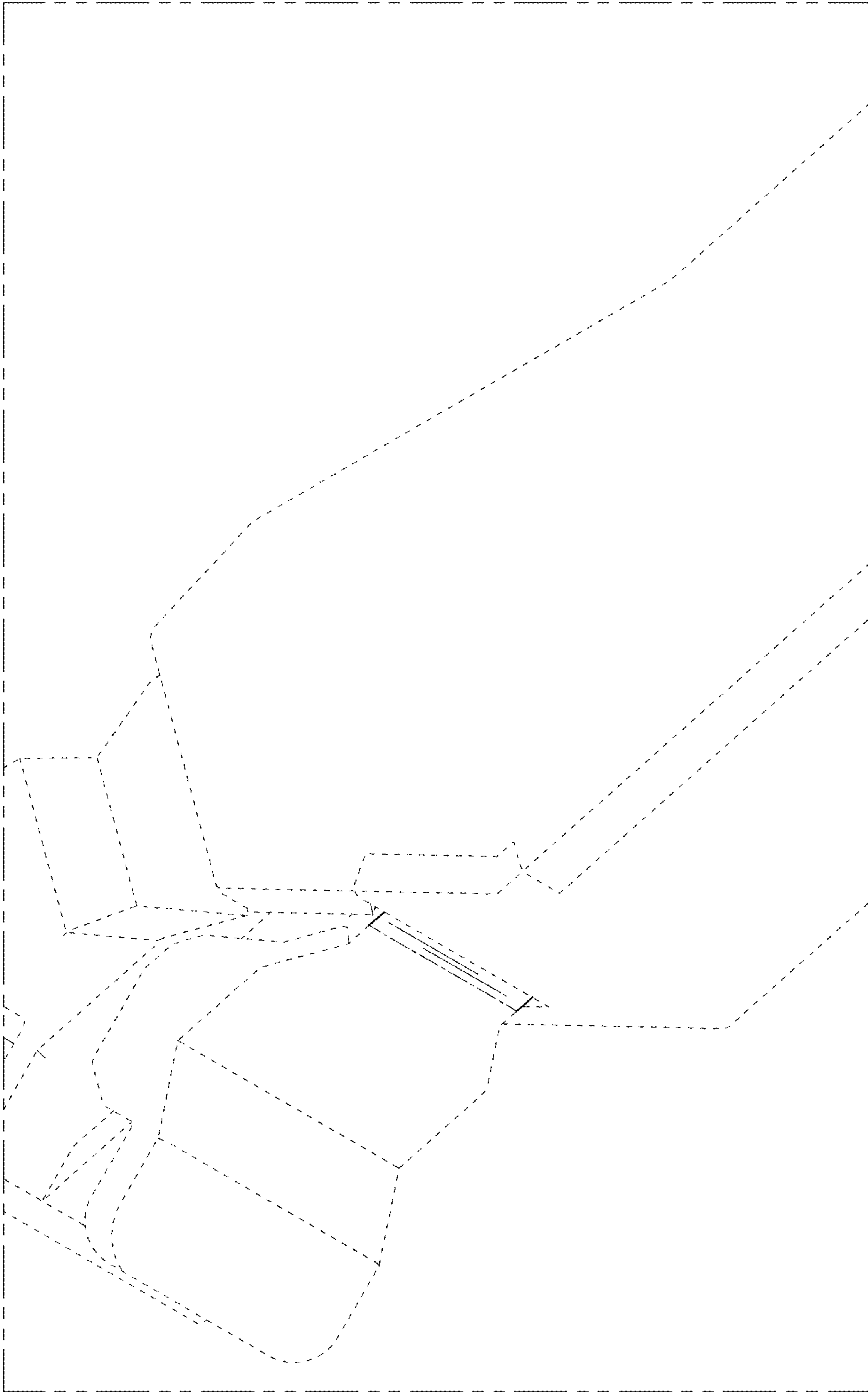


FIG. 13

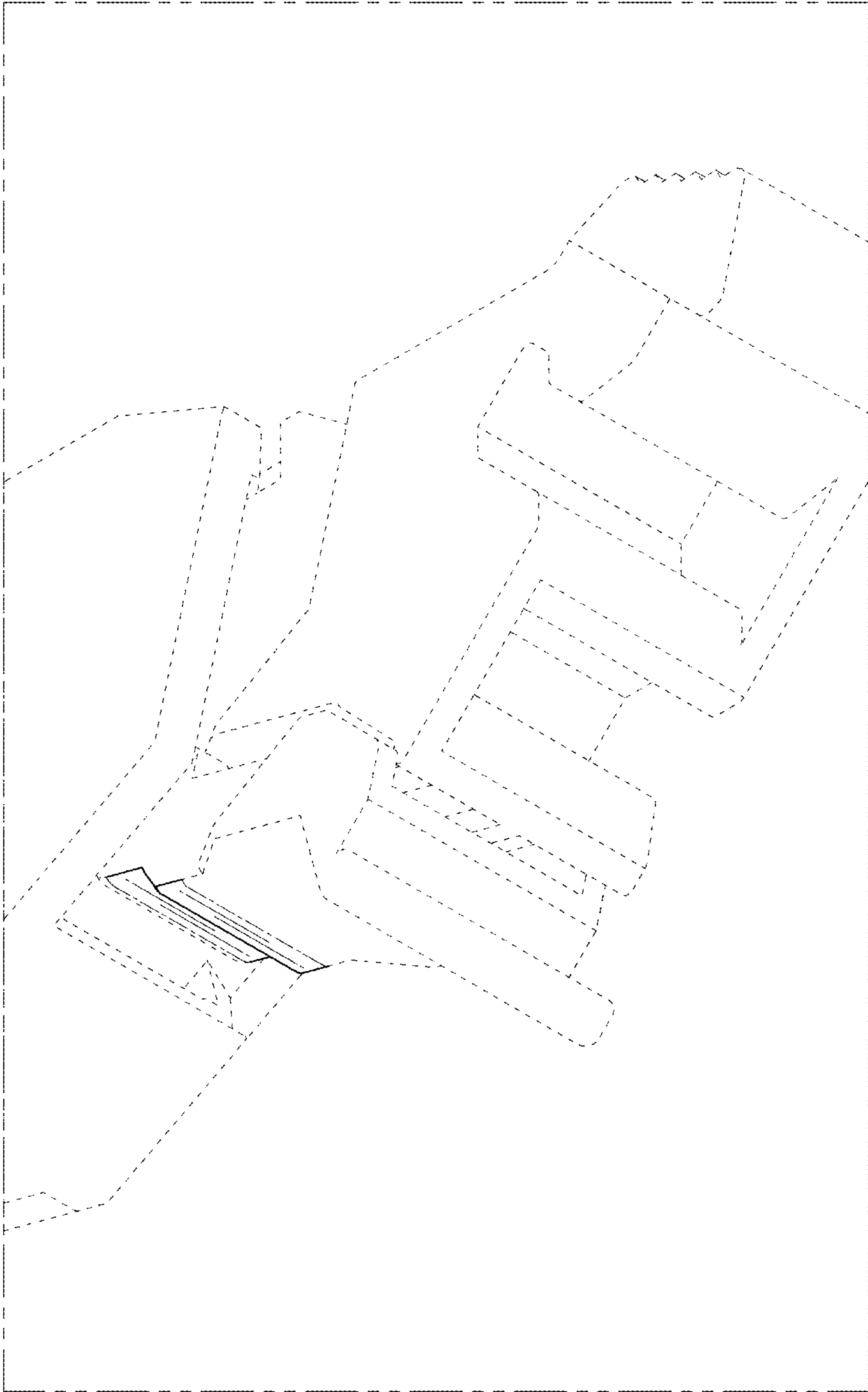


FIG. 14

