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(12) **United States Design Patent** (10) **Patent No.:** **US D881,171 S**  
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(54) **ANTENNA ELEMENT**  
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(\*\*) Term: **15 Years**

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(30) **Foreign Application Priority Data**

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Sep. 29, 2017 (JP) ..... 2017-021393

(51) **LOC (12) Cl.** ..... **14-03**

(52) **U.S. Cl.**  
USPC ..... **D14/230**

(58) **Field of Classification Search**  
USPC ..... D14/138, 230-238, 299, 358; D12/42, D12/43

CPC ..... H01Q 7/00; H01Q 13/10; H01Q 9/285; H01Q 19/30; H01Q 19/12; H01Q 1/38; H01Q 1/36; H01Q 2/0027; H01Q 1/48; H01Q 9/045; H01Q 1/243; H04B 1/0475; H04B 1/034; H05K 11/00

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D621,819 S \* 8/2010 Tsai ..... D14/230  
D685,772 S \* 7/2013 Zheng ..... D14/230

D706,750 S \* 6/2014 Bringuier ..... D14/230  
D772,849 S \* 11/2016 Chen ..... D14/230  
D810,058 S \* 2/2018 Zheng ..... D14/230  
D814,448 S \* 4/2018 Montgomery ..... D14/230  
D838,261 S \* 1/2019 He ..... D14/230  
D845,284 S \* 4/2019 He ..... D14/230  
2009/0027275 A1 \* 1/2009 Su ..... H01Q 1/242  
343/700 MS  
2010/0134358 A1 \* 6/2010 Su ..... H01Q 1/38  
343/700 MS  
2012/0229348 A1 \* 9/2012 Chiang ..... H01Q 1/2266  
343/702  
2017/0098636 A1 \* 4/2017 Miyamoto ..... H01L 25/167

\* cited by examiner

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(57) **CLAIM**

The ornamental design for an antenna element, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of the front, right, and top sides of an antenna element showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a right side view thereof, a left side view being a mirror image thereof;

FIG. 5 is a top plan view thereof;

FIG. 6 is a bottom view thereof; and,

FIG. 7 is a reference view of usage.

The broken lines shown in FIGS. 1-6 represent unclaimed subject matter of the antenna element and form no part of the claimed design.

The broken lines shown in FIG. 7 represent unclaimed subject matter of the antenna element and environmental subject matter and form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**

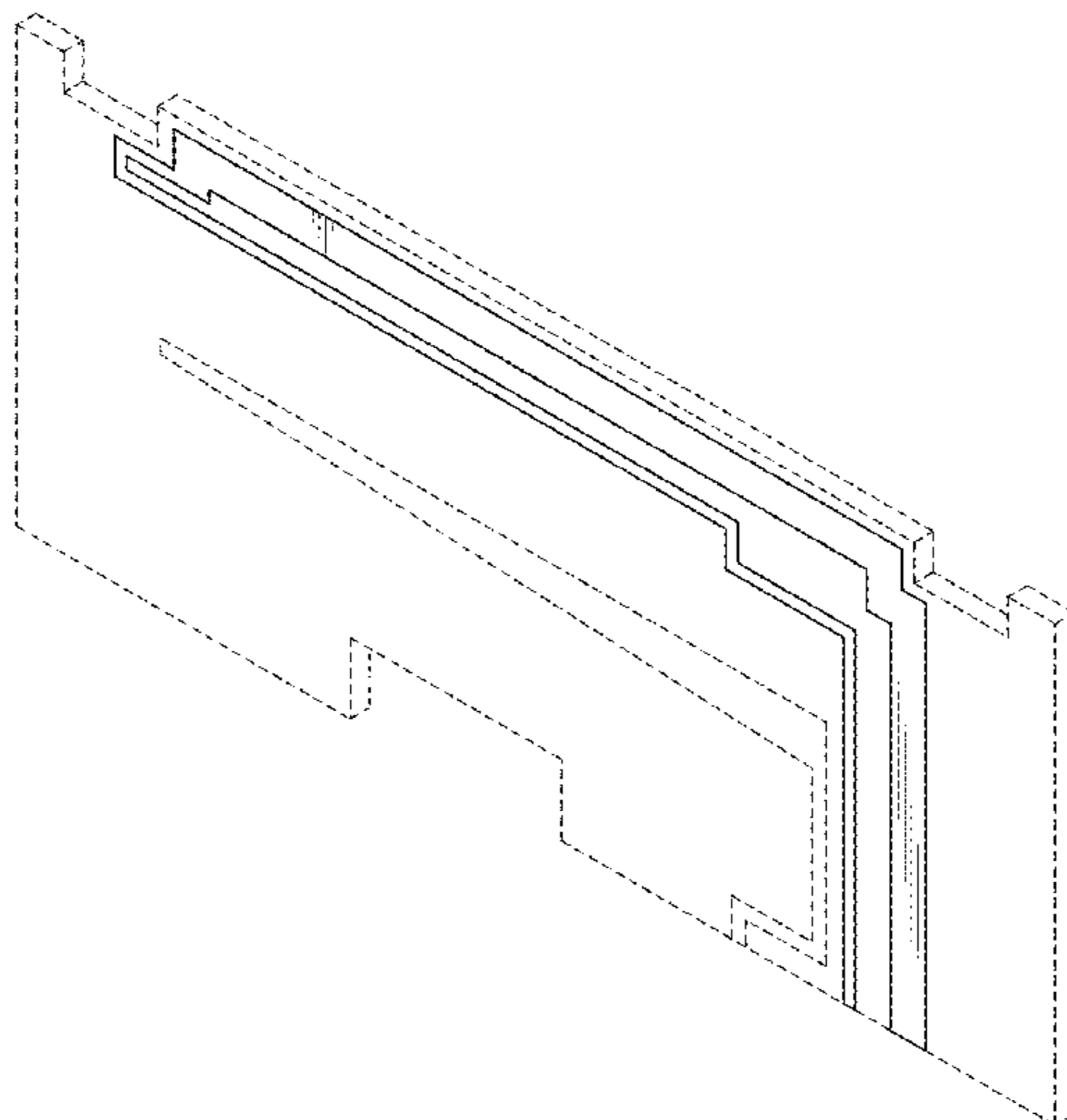


Fig. 1

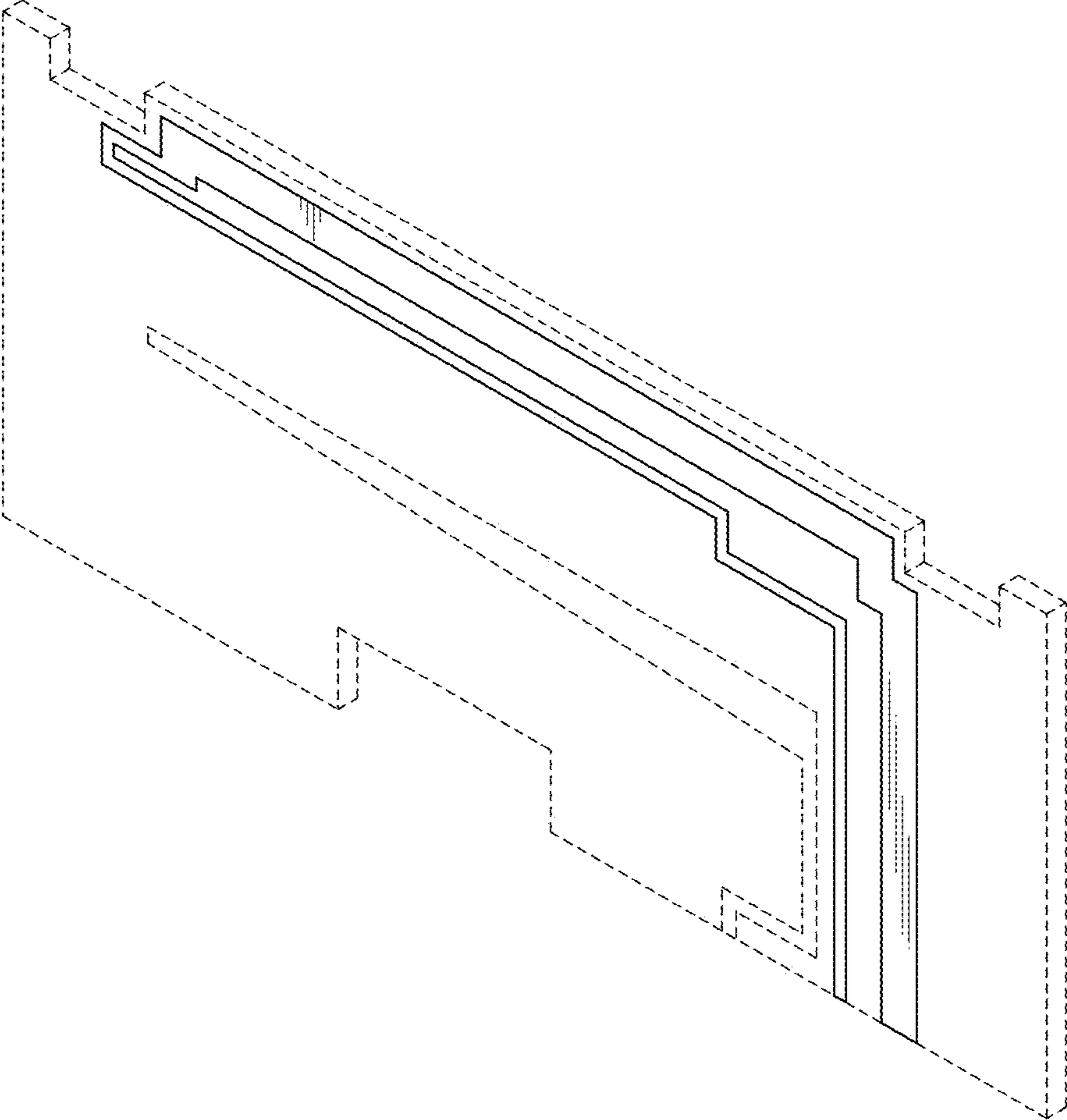


Fig. 2

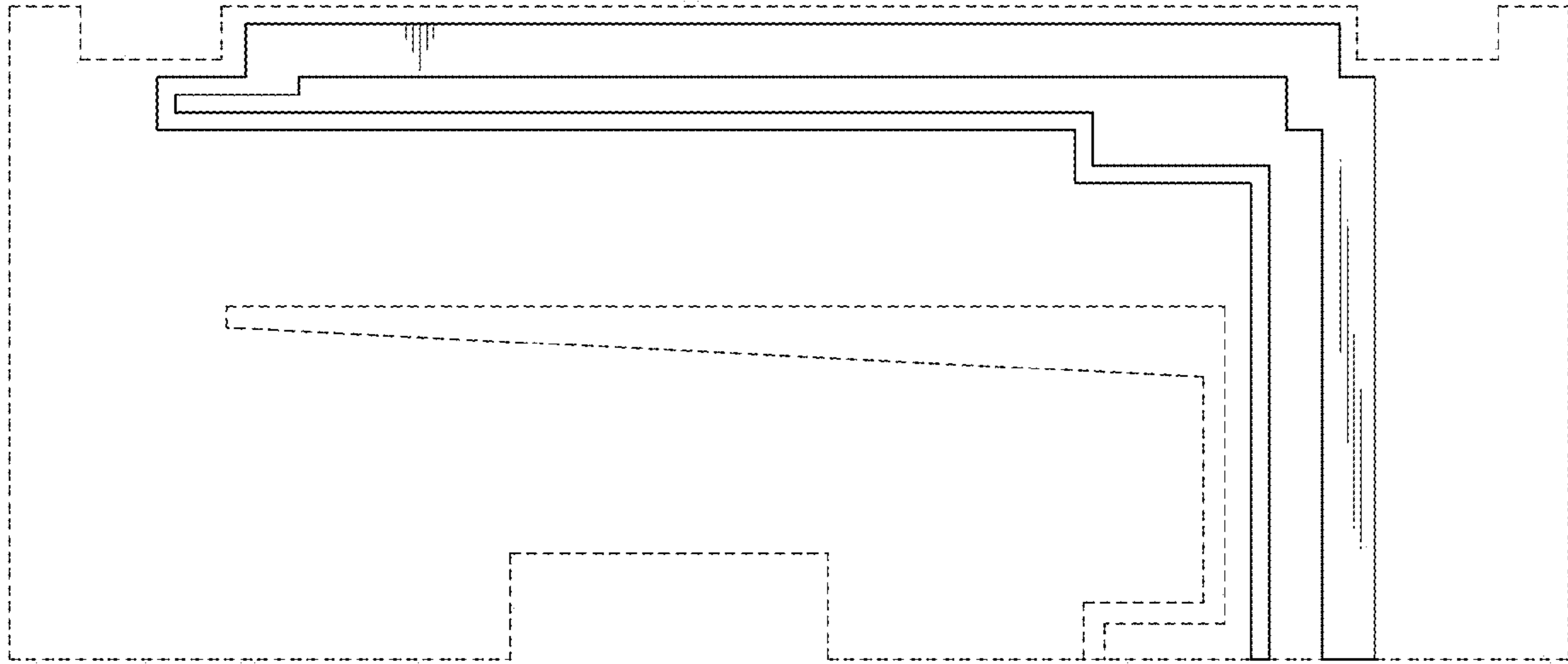


Fig. 3



Fig. 4

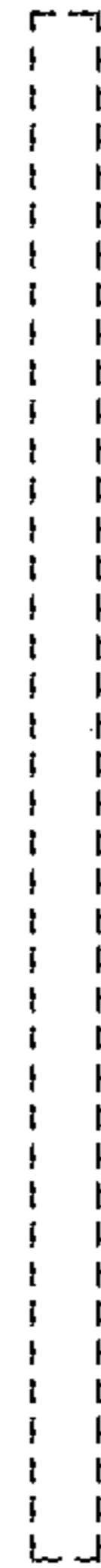


Fig. 5

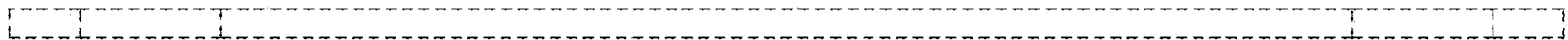


Fig. 6

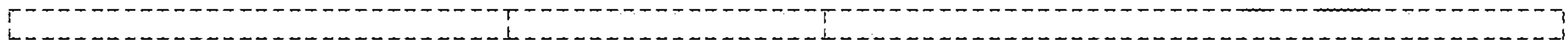


Fig. 7

