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

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(54) **PLANAR ANTENNA ELEMENT FOR VEHICLE WINDOWPANE**

2006/0055602 A1* 3/2006 Huber et al. 343/700 MS
2007/0001906 A1* 1/2007 Pelzer et al. 343/700 MS

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* cited by examiner

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(57) **CLAIM**

The ornamental design for a planar antenna element for vehicle windowpane, as shown and described.

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

DESCRIPTION

(21) Appl. No.: **29/209,350**

FIG. 1 is a front elevational view of a planar antenna element for vehicle windowpane showing our new design;

(22) Filed: **Jul. 15, 2004**

FIG. 2 is a rear elevational view thereof;

(51) **LOC (8) Cl.** **14-03**

FIG. 3 is a right side elevational view thereof;

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

FIG. 4 is a left side elevational view thereof;

(58) **Field of Classification Search** D14/138,
D14/230–238, 299, 358; D12/42, 43; 343/700 R–705,
343/871–908, 795, 840, 711–713, 819, 846,
343/767, 748, 700 MS, 741, 866; 455/90.2,
455/90.3, 91, 128, 269, 344, 347, 562.1
See application file for complete search history.

FIG. 5 is a top plan view thereof;

FIG. 6 is a bottom plan view thereof;

FIG. 7 is an enlarged front elevational view thereof; and,

FIG. 8 is a cross sectional view thereof taken along line 8—8 in FIG. 7.

(56) **References Cited**

The broken line showing of a vehicle windowpane is included for the purpose of illustrating environment and forms no part of the claimed design.

U.S. PATENT DOCUMENTS

2005/0248488 A1* 11/2005 Modro 343/700 MS
2006/0050002 A1* 3/2006 Wang et al. 343/767

1 Claim, 4 Drawing Sheets

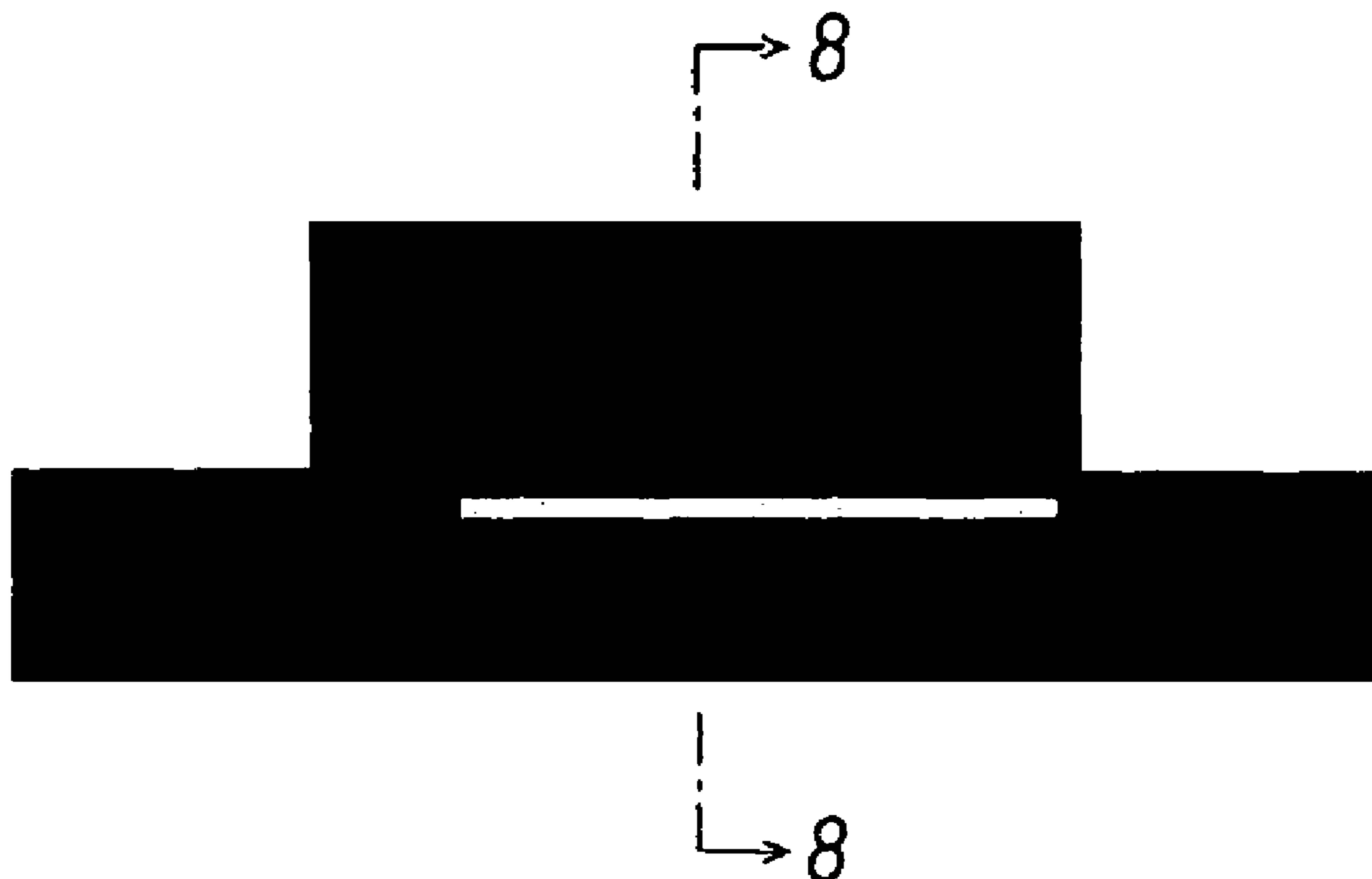


FIG. 1

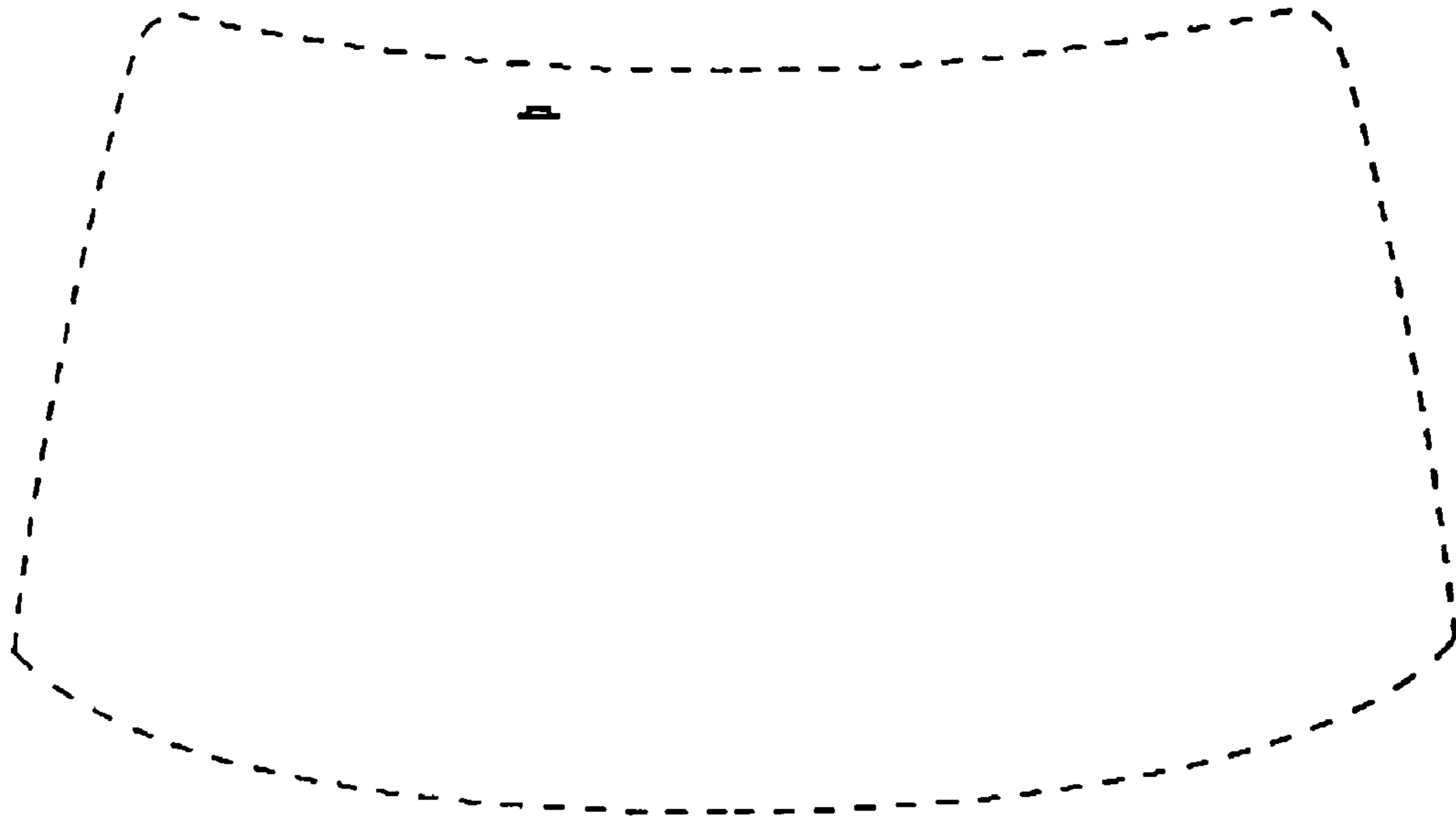


FIG. 2

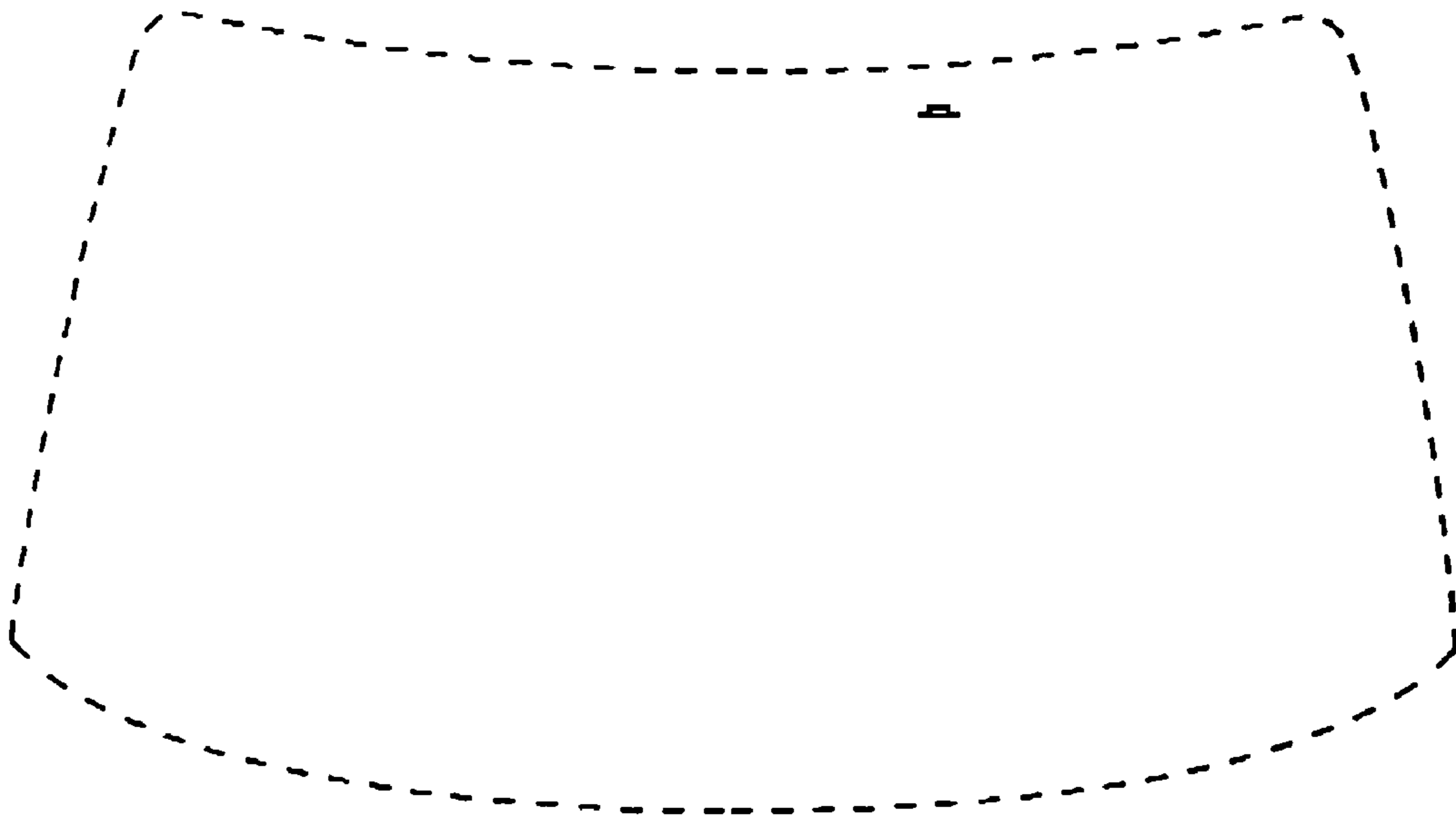


FIG. 3



FIG. 4



FIG. 5

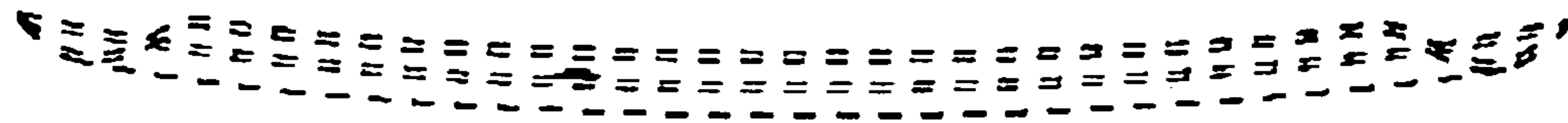


FIG. 6

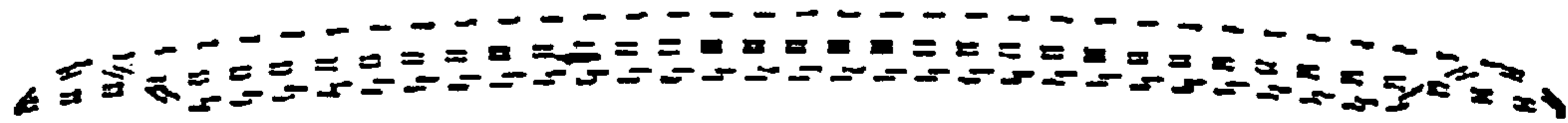


FIG. 7

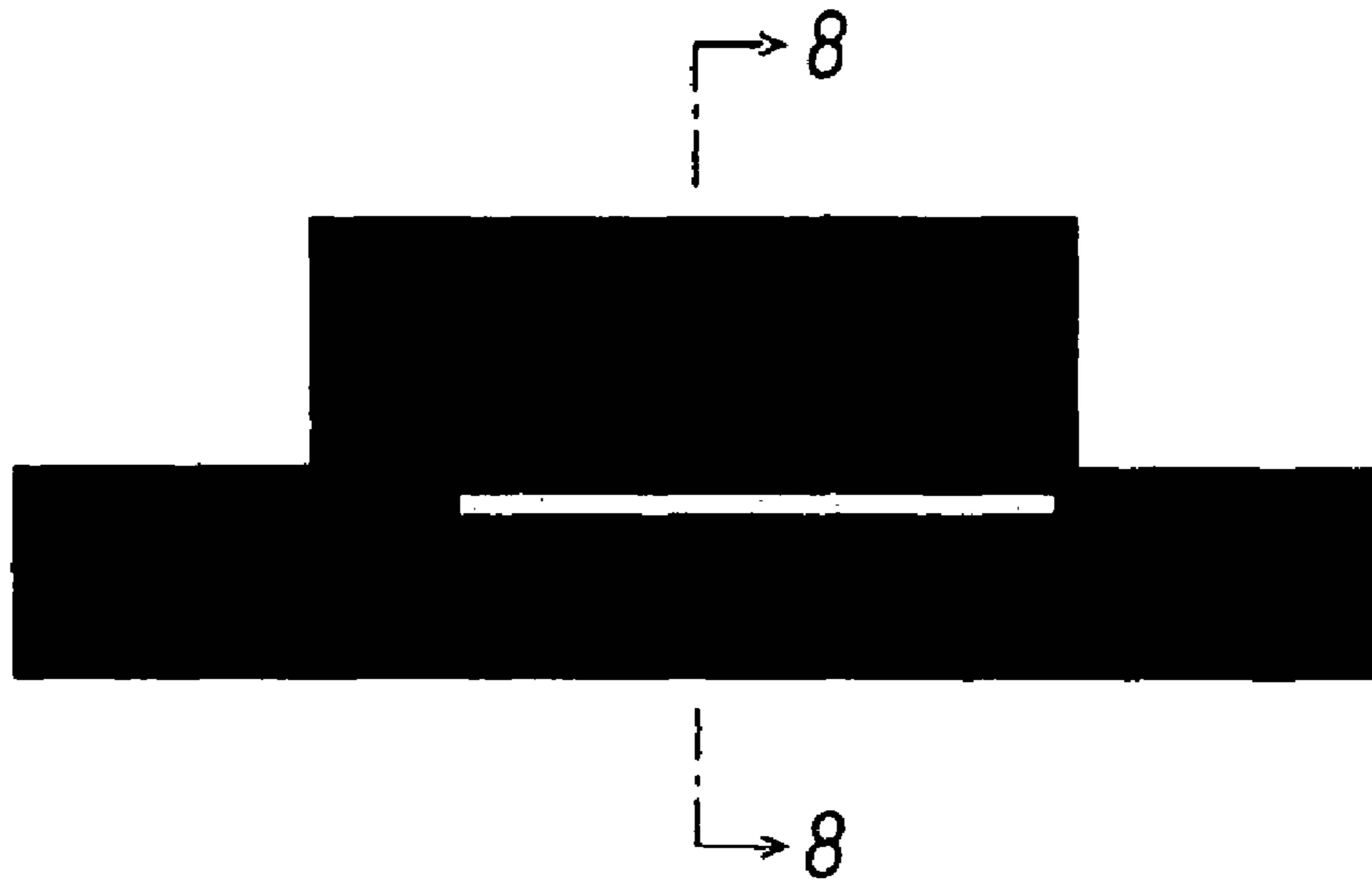


FIG. 8

