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(12) **United States Patent**
De Block et al.

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(45) **Date of Patent:** **Sep. 20, 2005**

(54) **WIPER BLADE FOR CLEANING SCREENS
IN PARTICULAR ON MOTOR VEHICLES**

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(75) Inventors: **Peter De Block**, Halen (BE); **Peter Wijnants**, Wezemaal (BE)

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(73) Assignee: **Robert Bosch GmbH**, Stuttgart (DE)

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 313 days.

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(21) Appl. No.: **10/048,202**

Primary Examiner—Gary K. Graham

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(74) *Attorney, Agent, or Firm*—Michael J. Striker

(86) PCT No.: **PCT/DE01/01304**

§ 371 (c)(1),
(2), (4) Date: **Apr. 22, 2002**

(57) **ABSTRACT**

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PCT Pub. Date: **Dec. 6, 2001**

A wiper blade for cleaning motor vehicles is proposed, which is provided with a band-like, elongated, spring-elastic support element (12). The lower band surface (13) of the support element (12) oriented toward the window (22) has an elongated, rubber-elastic wiper strip (14), which can be placed against the window (22), disposed on it so that the longitudinal axes of these two parts are parallel and the upper band surface (11) of the support element (12) has a wind deflection strip (42) disposed on it, which extends in the longitudinal direction of the support element, is provided with an attack surface (54) oriented toward the main flow of the relative wind, and is comprised of an elastic material. A considerable weight savings for the wiper blade is achieved if the wind deflection strip (42, 142, or 242) has two diverging legs (44, 46), viewed in cross section, which are connected to each other at a common base (48) and whose free ends (50, 52) oriented toward the window (22) are supported on the wiper blade (10), and the attack surface (54) is embodied on the outside of the one leg (44).

(65) **Prior Publication Data**

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(30) **Foreign Application Priority Data**

May 29, 2000 (DE) 100 26 419
Sep. 12, 2000 (DE) 100 44 913

(51) **Int. Cl.**⁷ **B60S 1/38**

(52) **U.S. Cl.** **15/250.201; 15/250.43**

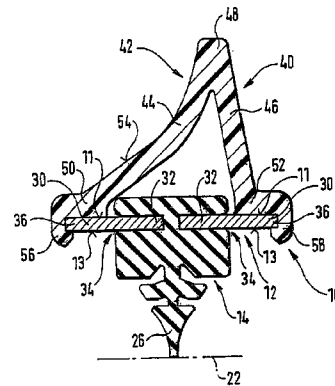
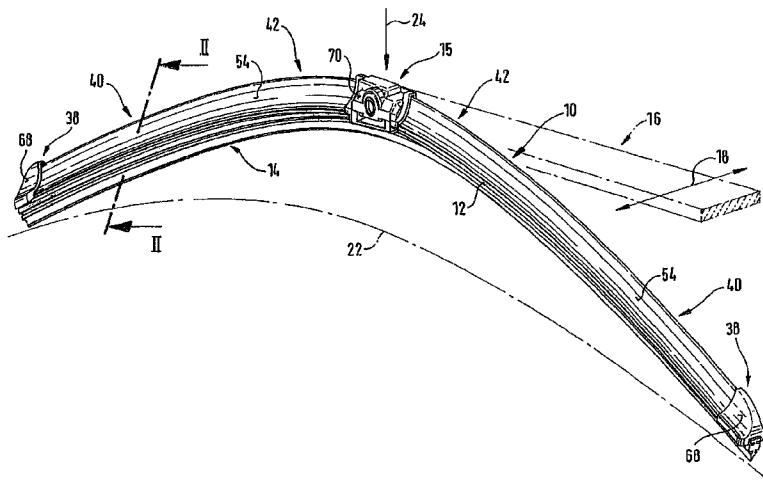
(58) **Field of Search** 15/250.201, 250.43,
15/250.44, 250.361, 250.48

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19 Claims, 4 Drawing Sheets



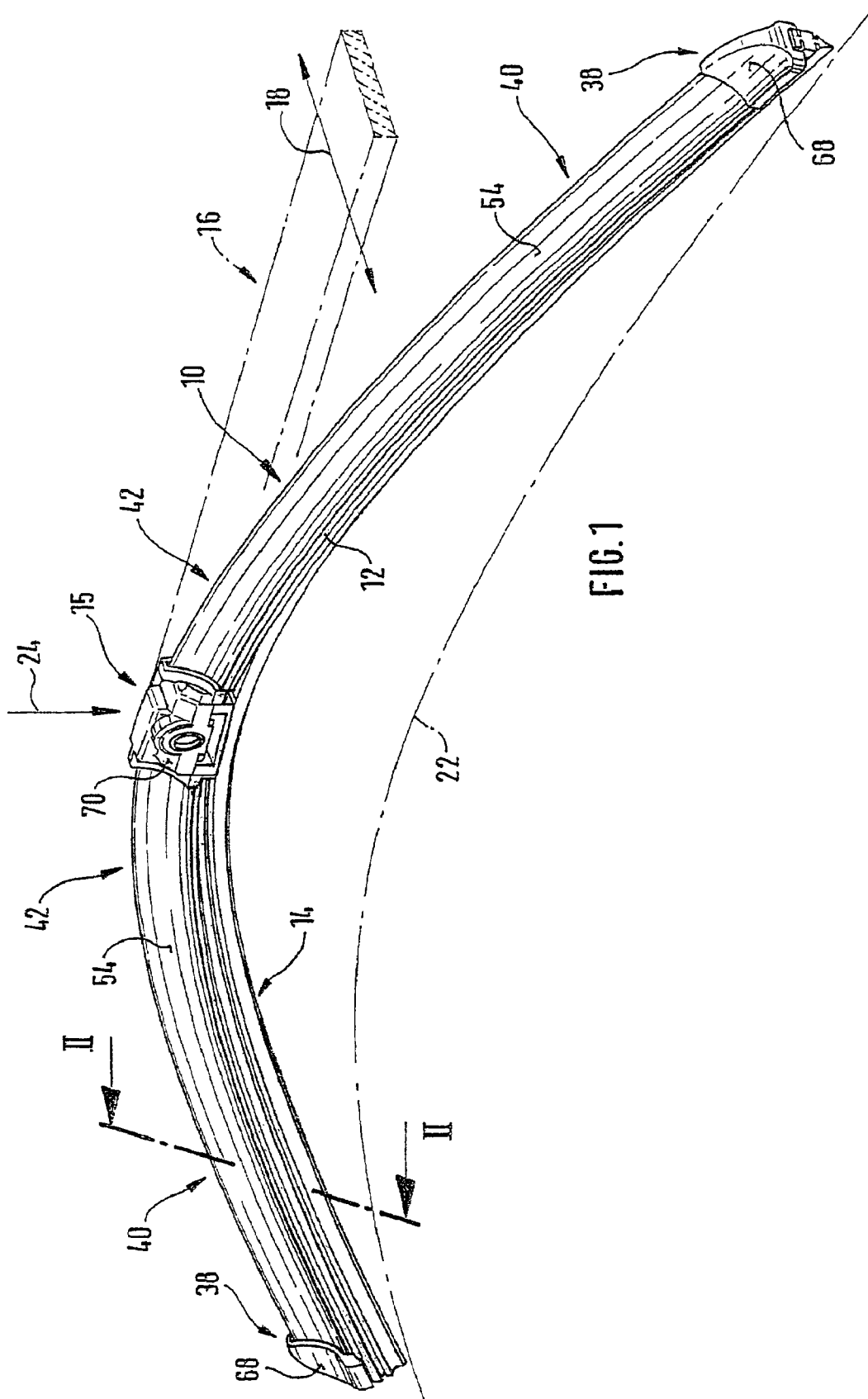


FIG. 1

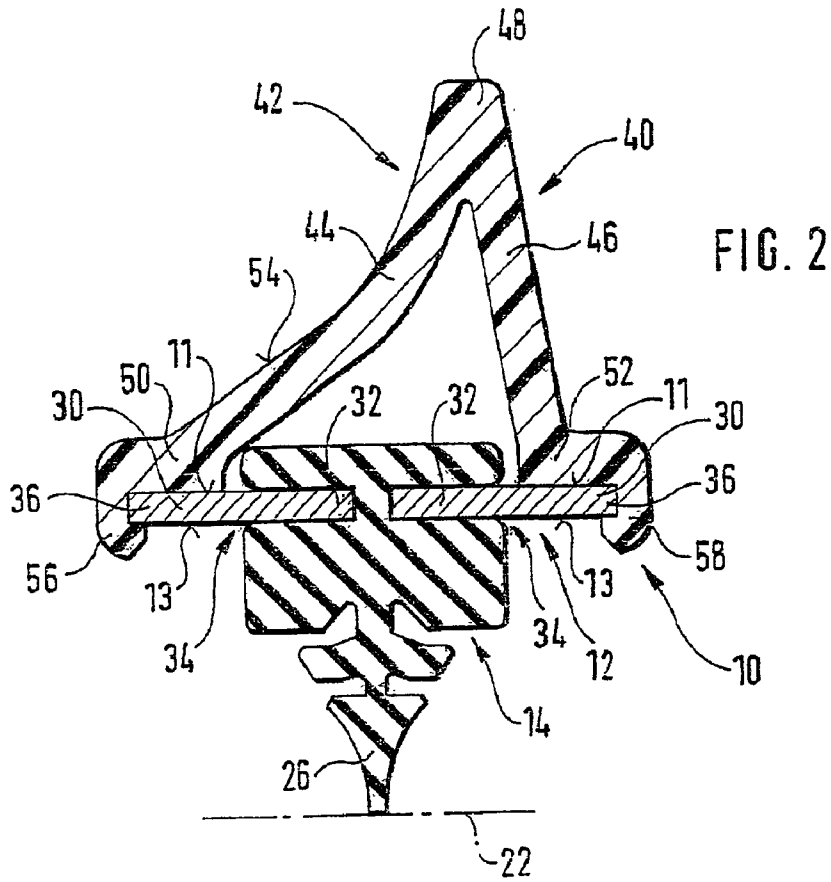


FIG. 2

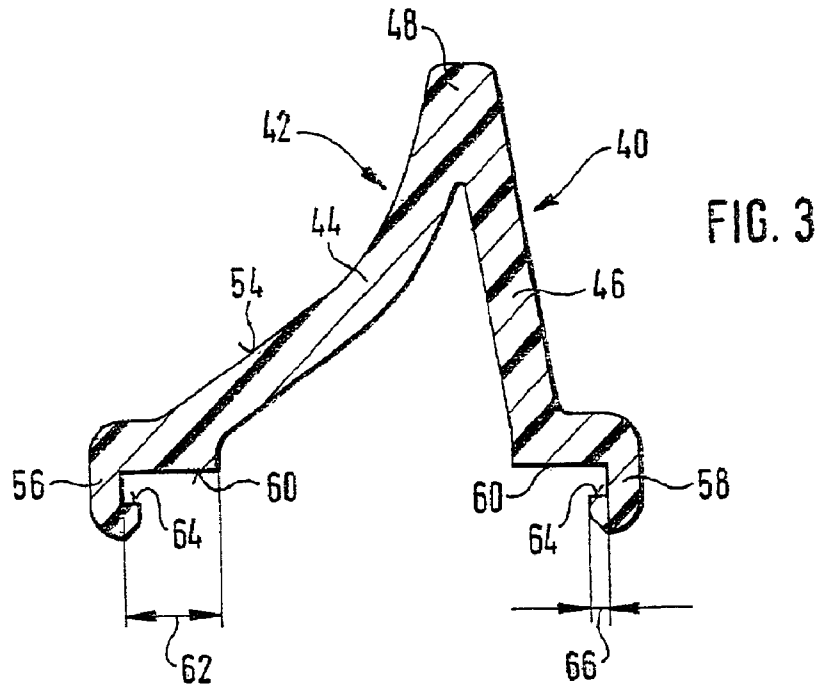


FIG. 3

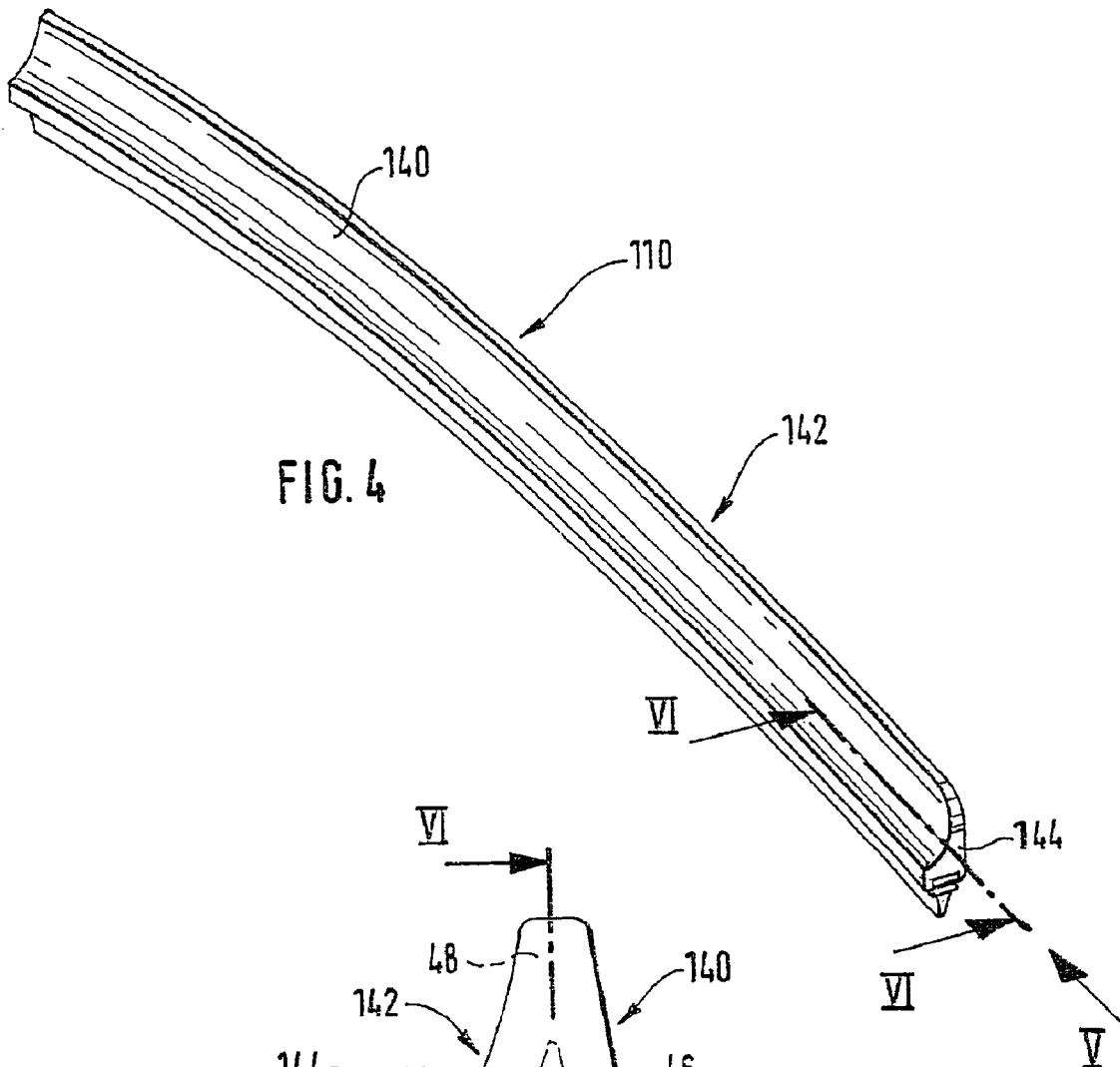


FIG. 4

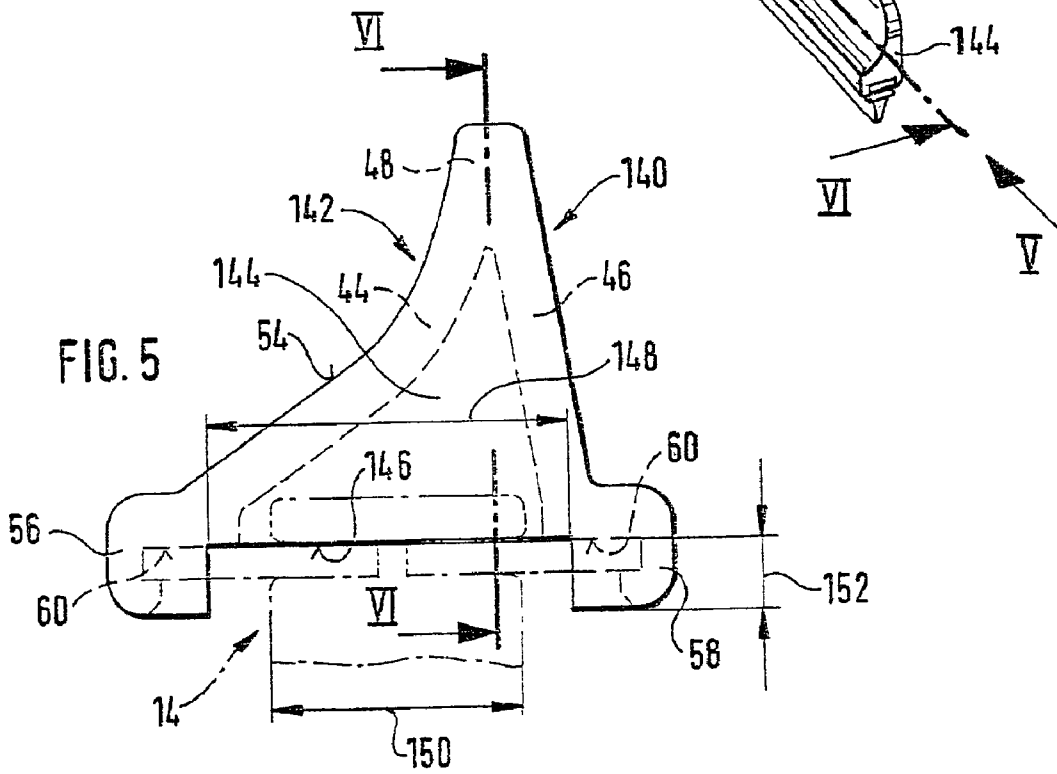


FIG. 5

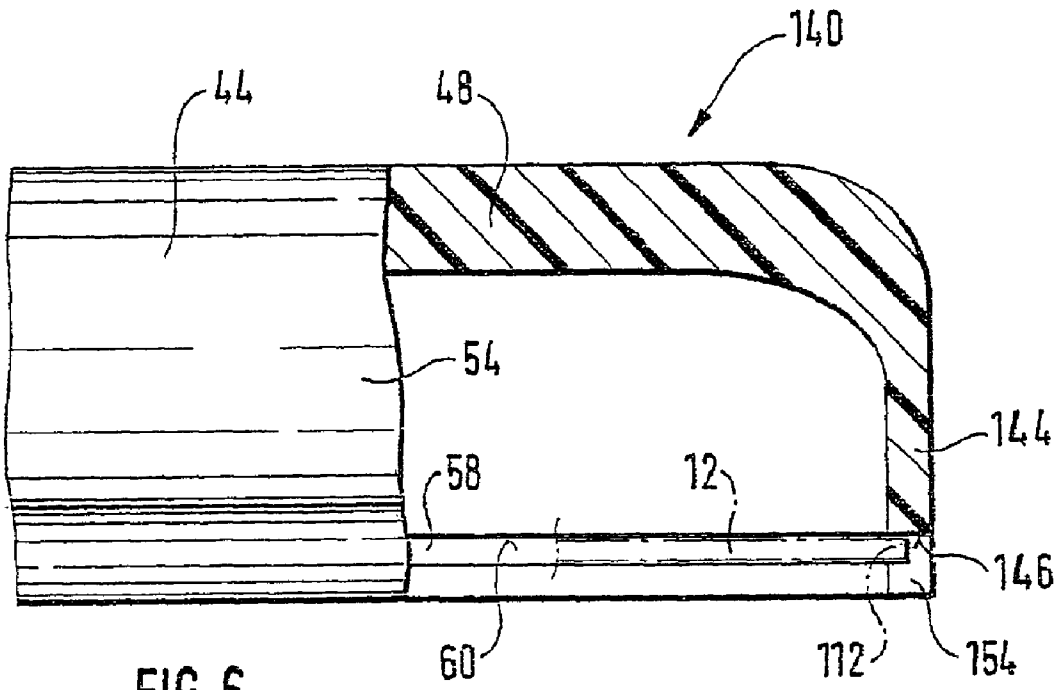


FIG. 6

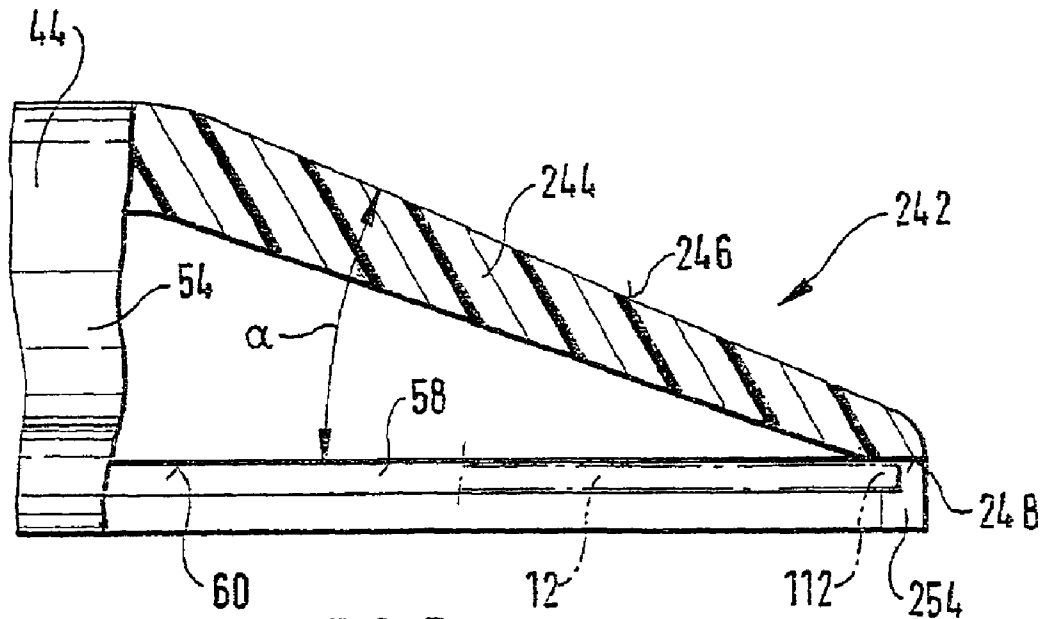


FIG. 7

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