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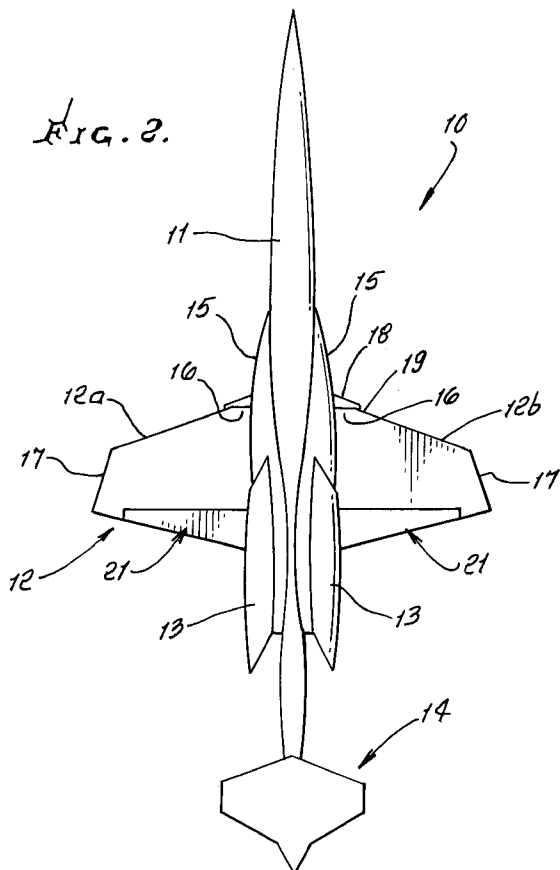
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[Continued on next page]

(54) Title: HIGHLY EFFICIENT SUPERSONIC LAMINAR FLOW WING



(57) Abstract: Improved supersonic laminar flow wing structure, on a supersonic aircraft, having one or more of the following: strake extending forwardly of the wing inboard extent, raked wing tip, reversed fillet at strake or fuselage junction, inboard leading edge flap extending over less than about 15 % of the inboard wing panel span, hybrid plain-split flap having a lower surface portion deflectable downwardly relative to plain flap extent.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B64C 9/06 (2008.04)

USPC - 244/35R

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - B64C 9/04, 9/06 (2008.04)

USPC - 244/35R, 214, 215, 217

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

USPTO EAST System (US, USPG-PUB, EPO, DERWENT), MicroPatent, IP.com, DialogPro

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	EP 0781704 B1 (RUDOLPH) 02 May 2002 (02.05.2002) entire document	1, 2 ----- 3, 7
X -- Y	US 6,729,577 B2 (MORGENSTERN) 04 May 2004 (04.05.2004) entire document	1 -- 4
Y	US 4,161,300 A (SCHWAERZLER et al) 17 July 1979 (17.07.1979) entire document	3
Y	US 6,089,502 A (HERRICK et al) 18 July 2000 (18.07.2000) entire document	4
Y	US 6,079,672 A (LAM et al) 27 June 2000 (27.06.2000) entire document	7
A	US 4,485,992 A (RAO) 04 December 1984 (04.12.1984) entire document	1-11

 Further documents are listed in the continuation of Box C.

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"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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