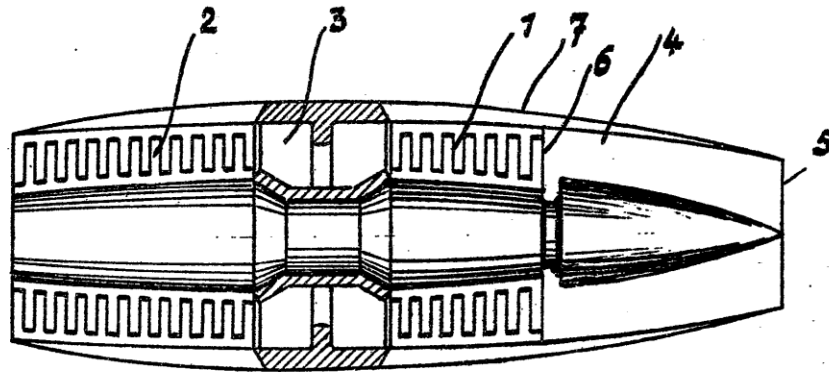


Part 3 Herbert WAGNER - The Versatile Pioneer



patent 724091

Part 3 - Patents - References - Links

Patents

1) Thin Metal Sheet Construction

a1) US patent 1,822,943 on sheet metal panel constructions:

[us1822943fuselage.pdf](#)

a2) German patent 547 624 on same subject:

[de547624blechkonstruktion.pdf](#)

2) Box Spar Construction

a1) US patent 2,241,972 on box girders with hinging walls:

[2a1us2241972boxwing.pdf](#)

a2) German patent 681 864 on same subject:

[2a2de681864boxwing.pdf](#)

3) High Altitude Airplane

a1) German patent 693 159 cockpit arrangement:

[3a1de693159cockpit.pdf](#)

b1) US patent 2,265,461 cabin air pressure system:

[3b1us2265461airpressure.pdf](#)

b2) German patent 691 285 on same subject:

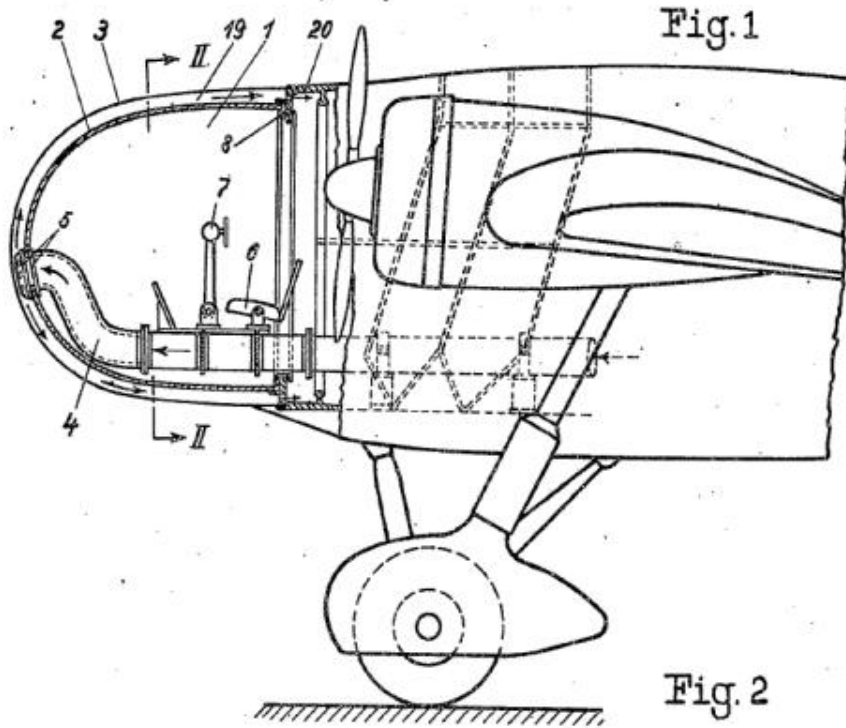
[3b2de691285airpressuresystem.pdf](#)

c1) German patent 733 898 on circular engine cooler behind airscrew:

[3c1de733898enginecooler.pdf](#)

d1) German patent 724 091 on principal dimensions of turbo jet engine:

[3d1de724091turbojet.pdf](#)



4) Control Surfaces and Rudders

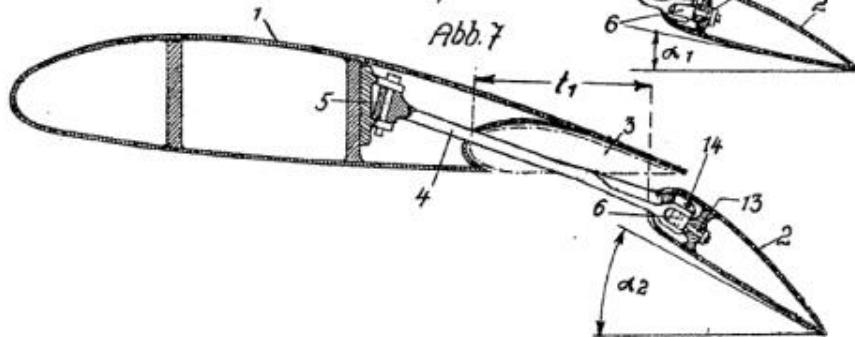
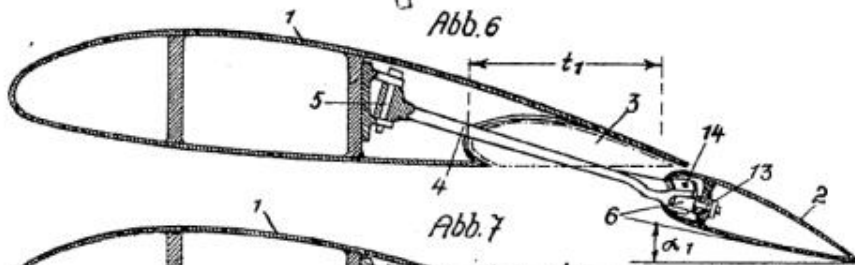
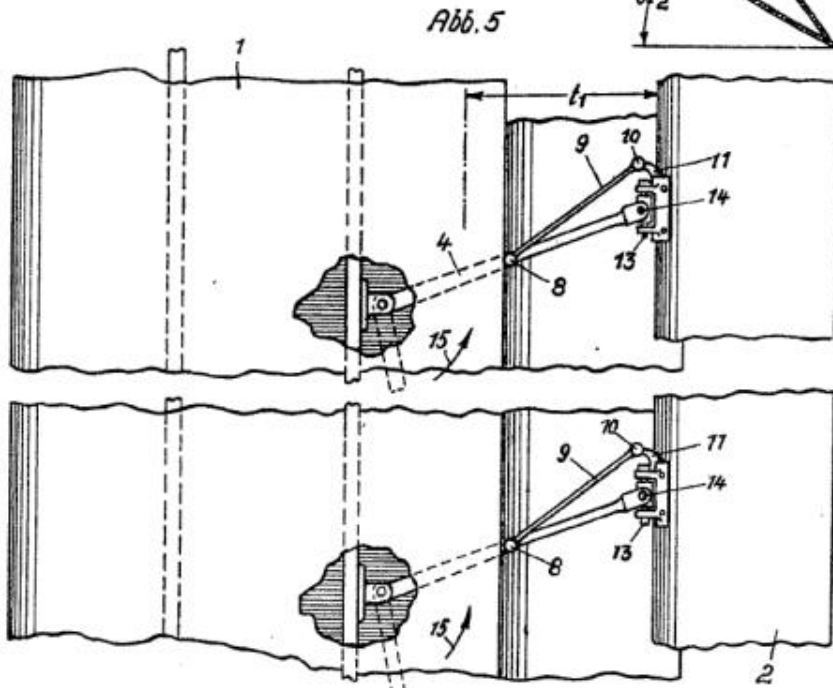
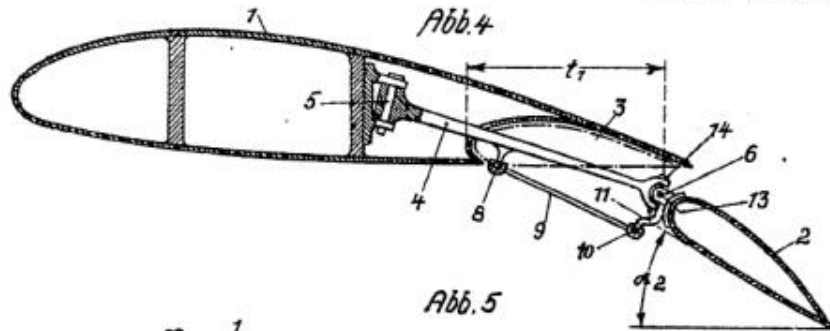
- a1) US patent 2,211,870 on Counterbalancing Rudders
[4a1us2211870countrbalance.pdf](#)
- a2) German patent 664 509 on same subject
[4a2de664509countrbalance.pdf](#)
- b1) US patent 2,246,116 on Chordwise Wing Extension
[4b1us2246116wingxtension.pdf](#)
- b2) German patent 683 504 on same subject
[4b2de683504wingxtension.pdf](#)
- c1) German patent 697 606 on Wing Flaps
[4c1de697606flaps.pdf](#)
- d1) German patent 714 000 on Wing Flaps
[4d1de714000flaps.pdf](#)
- e1) US patent 2,218,128 on Airflow Spoilers
[4e1us2218128wingspoiler.pdf](#)
- e2) German patent 678 517 on same subject
[4e2de678517wingspoiler.pdf](#)
- f1) German patent 727 732 on Airflow Spoilers
[4f1de727732airbrake.pdf](#)

5) Boundary Layer Control

- a1) US patent 2,211,871 Redirecting Airflow
[5a1us2211871air-redirect.pdf](#)
- a2) German patent 693 898 on same subject
[5a2de693898boundarylayer.pdf](#)
- b1) US patent 2,277,173 on influencing boundary layer flow
[5b1us2277173wingsuction.pdf](#)
- b2) German patent 696 300 on same subject
[5b2de696300boundarylayer.pdf](#)
- c1) US patent 2,271,321 on redirecting boundary layer flow
[5c1us2271321air-redirect.pdf](#)
- d1) German patent 736 114 on influencing boundary layer flow
[5d1de736114boundarylayer.pdf](#)

6) Some of the After-War Patents

- a1) US patent 2,793,290 Generator of Rectangular Pulse (1957)
[6a1us2793290blockpulse.pdf](#)
- b1) US patent 3,999,621 Low Profile Platform Weighing Scale (1976)
[6b1us3999621weighscale.pdf](#)



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"Über die Entstehung des dynamischen Auftriebes von Tragflügeln", 1924, in: *Zeitschrift für angewandte Mathematik und Mechanik*
maybe found at: <http://gdz.sub.uni-goettingen.de/gdz/>

2. *H. Wagner: "Guidance and Control of the Henschel Missiles"*,
In: Th. Benecke and A.W. Quick (Hrsg.): *History of German Guided Missiles Development*, AGARDograph No.20, Verlag E. Appelhand & Co. Braunschweig 1957,
see: <https://www.cso.nato.int/Pubs/rdp.asp?RDP=AGARD-AG-20>

Links

<http://www.flugzeug-lorenz.de/index.php?id=81>

for a detailed account of the Junkers EF-61 high altitude bomber, see:

"The extreme altitude bomber EF-61 fails by his own claims":

<http://www.flugzeug-lorenz.de/index.php?id=113>