Title (en)

SKI JUMP AND WINGSUIT FREE FLIGHT SIMULATOR

Title (de)

EINRICHTUNG ZUM SIMULIEREN DES SCHISPRUNGES UND DES FREIEN WINGSUIT-FLIEGENS

Title (fr)

SIMULATEUR DE SAUT À SKI ET DE VOL LIBRE EN COMBINAISON AILÉE

Publication

**EP 3824978 B1 20221012 (EN)**

Application

**EP 19460061 A 20191120**

Priority

EP 19460061 A 20191120

Abstract (en)

[origin: EP3824978A1] The object of the invention is a simulator of ski jumps in a ski suit with skis, and of wingsuit free flights. The developed simulator has two mutually parallel side tunnels, i.e.: the horizontal tunnel (1a) with the drive system assembly (2a) and the horizontal tunnel (1b) with the drive system assembly (2b) which enforce two separate air flows. Between them a middle oblique tunnel (4) is situated, with the floor (5), a part of which is a movable oscillatorily tilting platform (6) being the way into and out of the simulator, affixed oscillatorily to the lower part of the floor (5) of the oblique tunnel (4). In the upper part of the movable platform (6) the threshold (7) is oscillatorily attached always maintaining horizontal position. The simulator also comprises a vertical tunnel (8) connecting with the upper end of the oblique tunnel (4). The lower end of the vertical tunnel (8) is introduced into the middle upper part of the longitudinal tunnel (12) running between the horizontal tunnel (1a) and the horizontal tunnel (1b).In the vertical tunnel (8), on the way of the air flow (3a) and the air flow (3b) the obstacles (10) are placed, against which the air jets break. One of the ends of each of the mutually parallel horizontal tunnels (1a), (1b) and of the oblique tunnel (4) is connected with the transversely running tunnel being a confusor (11). At the spot of conjunction of individual tunnels and in the vicinity of their junction, at least one flow guide (9) is placed. The air flows (3a) and (3b) are controlled by the change of the turning speed of the drive system assemblies (2a) and (2b) respectively.

IPC 8 full level

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CPC (source: EP)

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