

Title (en)  
LIFT CREATING SAIL AND SAIL SYSTEM

Title (de)  
AUFTRIEB ERZEUGENDES BESEGELUNGSSYSTEM

Title (fr)  
VOILE CREANT DE LA PORTANCE ET SYSTEME DE VOILES

Publication  
**EP 1035999 A1 20000920 (EN)**

Application  
**EP 98959618 A 19981125**

Priority  

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Abstract (en)  
[origin: WO9928183A1] An improved lift creating sail and sail system where a substantially rectangular mainsail (2) made up of panels forms an aerodynamically efficient airfoil that is supported at approximately its center on a pivot so that it has three degrees of freedom. The mainsail can be tilted at heathships, rotated along a yaw axis, and tilted fore and aft to create lift and minimum drag. An optional jib sail (3) that can track the motion of the mainsail also produces lift. The mainsail (2) and jib sail (3) can be trimmed and positioned along three degrees of freedom to obtain maximum lift and minimum drag as well as a stable system. The effect of this sail system is to increase the speed of the boat by 15-25 %.

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**B63H 9/06**

IPC 8 full level  
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CPC (source: EP US)  
**B63B 1/121** (2013.01 - EP); **B63H 9/068** (2020.02 - EP US); **B63B 2015/0075** (2013.01 - EP)

Citation (search report)  
See references of WO 9928183A1

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