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(71) Applicant and

(72) Inventor: **FINK, Lowell, S.** [US/US]; P.O. Box 740023,
Houston, TX 77274-0023 (US).

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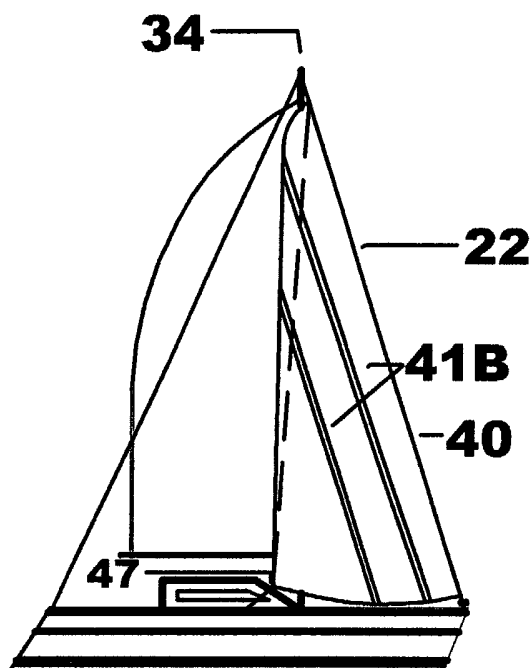
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(54) Title: SEMI-ELLIPTICAL SAIL SYSTEM FOR WIND-PROPELLED VEHICLES



(57) Abstract: A comprehensive system of universally compatible semi-elliptical sails for optimum performance and onvenience on any point of sail, this cost effective performance alternative to taller masts serves sailmakers, boat builders and sailors equally. System sails include convertible genoajib (22), inner convertible genoajib (22A), maxgenoa (22B), universal optimized battenless sail (22C), hoisted self-tacking maxjib (23), hoisted self-tacking overlapping maxjib (23A), hoisted self-boomed maxmain (23C) mast furling maxmain (125), and boom-furling maxmain (126), each sail complying with predetermined positive roach parameters. Low profile, automatic jib and mainsail stowage bags (44, 46) enable uncompromised performance while innovative battens and batten substitutes enable new types of sails. Masthead energy platform (134) extends rig dimensions while integrating natural energy elements with communications, safety and video functions. The system eliminates on-deck sail handling and sail inventories as well as lazy jacks and external jib booms and wishbones. Its ideal sail interface and sail system design generate performance, safety, and convenience synergies for any commercial or recreational sailboat.

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B63H 9/04

US CL : 114/102.1

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)

U.S. : 114/102.1,102.12,39.11,102.15,102.18,102.22,102.24,104,105

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,741,281 A (DOYLE) 03 MAY 1988, SEE ENTIRE DOCUMENT.	

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

For Ed Swinehart

Telephone No. 703-308-1113