Case 2:07-cv-12528-LPZ-DAS Document 1

# ORIGINAL

# IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF MICHIGAN

Exhibits A-B BLACKJACK SULKY LTD., An Ohio corporation 07-12528 8795 Crow Drive Macedonia, Ohio 44067 Civil Action N RENCE P. ZATKOFF Plaintiff Judge: MAGISTRATE JUDGE SCHEER ٧. COMPLAINT FOR PATENT INFRINGEMENT CARL CALFIN, An individual Jury Trial Demanded 1700 Geddes Road Ann Arbor, MI 48104

NOW COMES the Plaintiff, BLACKJACK SULKY LTD. (hereinafter "BlackJack"), and for its Complaint against Defendant CARL CALFIN states as follows:

### THE PARTIES

- Plaintiff, BlackJack is a corporation of the State of Ohio, having a place of business at 1. 8795 Crow Drive, Macedonia, Ohio 44067.
- 2. Upon information and belief, Defendant Carl Calfin is an individual having a principal residence at 1700 Geddes Road, Ann Arbor, MI 48104.

# JURISDICTION AND VENUE

This is an action for patent infringement arising under the patent laws of the United 3. States, Title 35 U.S.C. Sec. 271.

- 4. This Court has subject matter jurisdiction under 28 U.S.C. Secs.1331 and 1338(a), and has personal jurisdiction over the Defendant.
- 5. Venue is proper in this District under 28 U.S.C. Secs.1391 and 1400 (b) in that Defendant resides or may be found in this District, has committed acts complained of herein within this District, and has further caused injury within this District by acts complained of herein undertaken outside this District.

# FACTS COMMON TO ALL COUNTS

- In 2000, Plaintiff BlackJack began marketing a racing sulky referred to as the "BlackJack" sulky.
- 7. On August 1, 2000, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 6,095,536, entitled "Racing Sulky" (hereinafter the '536 patent), naming Craig Stein and Aaron L. Mulrooney as inventors. A copy of the '536 patent is attached as Exhibit A.
- 8. On March 12, 2002, the U.S. Patent and Trademark Office dully and legally issued U.S. Patent No. 6,354,613, entitled "Racing Sulky" (hereinafter the '613 patent), naming Craig Stein and Aaron L. Mulrooney as inventors. A copy of the '613 patent is attached as Exhibit B.
- 9. Plaintiff is the lawful owner by assignment of all right, title, and interest in the '536 and '613 patents.
- 10. On information and belief, since at least April of 2004 Defendant Carl Calfin has infringed one or more of the claims of the '536 and '613 patents by at least: (a) making, using, and selling or offering to sell and/or (b) knowingly contributing to or inducing the infringement of the Plaintiff's '536 and '613 patents by supplying in the United States a sulky covered by the claims of

2

the '536 and '613 patents in this District and elsewhere.

- 11. On information and belief, Defendant actively participated in the design, manufacture and/or sale of the sulky covered by Plaintiff's '536 and '613 patents with full knowledge of these patents.
- 12. On information and belief, Defendant Carl Calfin specifically directed and induced others to commit infringement by at least making, using, and selling or offering to sell, in the United States, a sulky covered by the claims of the '526 and '613 patents.

### COUNT I

# Patent Infringement of the 6,095,536 Patent

- 13. The Plaintiff reasserts the allegations set forth in paragraphs 1 through 12 as though fully rewritten.
- 14. The sulky made by or on behalf of Defendant and/or sold and/or offered for sale by Defendant infringes at least certain of the claims of Plaintiff's U.S. Patent No. 6,095,536.
  - 15. The Defendant's infringement of the '536 patent has been willful.
- 16. Defendant's infringement of the '536 patent has deprived Plaintiff of sales of its own sulkys, has in other respects caused irreparable harm to Plaintiff, and will continue to cause Plaintiff added injury and loss of profits unless said infringement is enjoined by this Court.

### COUNT II

# Patent Infringement of the 6,354,613 Patent

- 17. The Plaintiff reasserts the allegations set forth in paragraphs 1-16 as though fully rewritten.
  - 18. The sulky made by or on behalf of Defendant and/or sold and/or offered for sale by,

or on behalf of Defendant, infringes at least certain of the claims of Plaintiff's 6,354,613 patent.

- 19. The Defendant's infringement of the '613 patent has been willful.
- 20. Defendant's infringement of the '613 patent has deprived Plaintiff of sales of its own sulkys, has in other respects caused irreparable harm to Plaintiff, and will continue to cause Plaintiff added injury and loss of profits unless said infringement is enjoined by this Court.

# PRAYER FOR RELIEF

WHEREFORE, Plaintiff prays for the following relief:

- A. An award of damages adequate to compensate for the complained-of acts of infringement, such award to be in no event less than a reasonable royalty.
- B. That the damages determined from Paragraph A be trebled, or that some form of exemplary damages be awarded, as a consequence of Defendant's willful wrongful acts as complained-of herein.
  - C. That the infringing products be delivered up and destroyed under oath.
- D. That Defendant be enjoined from any further acts of infringement of the '613 and '536 patents, including manufacturing, distributing, using, selling, or offering for sale any product that infringes either of these patents.
  - E. That Plaintiff be awarded its' attorney fees and costs.
  - F. Such additional relief as this Court may deem just and proper.

### JURY DEMAND

Pursuant to FRCP 38 (b), Plaintiff BlackJack Sulky Ltd. demands a trial by jury on all issues

so triable.

By:

hristopher A. Mitchell (P52734)

YOUNG BASILE, PC 8001 W. Big Beaver Road

Suite 624

Troy, Michigan 48084 Tel. (734) 662-0270 Fax (734) 662-1014

E-mail mitchell@youngbasile.com

Dated: June 13, 2007

Local counsel for Plaintiff

Ray L. Weber (Not Yet Admitted)
Laura J. Gentilcore (Not Yet Admitted)
Mark L. Weber (Not Yet Admitted)

Renner, Kenner, Greive, Bobak, Taylor & Weber

400 First National Tower

Akron, Ohio 44308

Telephone No.; 330.376.1242 Facsimile No.: 330.376.9646

E-mail <u>rlweber@rennerkenner.com</u>

Attorneys for Plaintiff

# **EXHIBIT A**

Exhibit A

# United States Patent [19]

Stein et al.

[11] Patent Number:

6,095,536

[45] Date of Patent:

Aug. 1, 2000

### [54] RACING SULKY

[76] Inventors: Craig Stein, 8795 Crow Dr., Macadonia, Otiio 44067; Aaron L. Mulrooney, 3064 W. Edgerton Rd., Silver Lake, Ohio 44224

[21]	Appl. No.: 09/430,224
[22]	Filed: Oct. 29, 1999
[51] [52]	Int. Cl. <sup>7</sup>
(58)	Fleid of Search 280/63, 64, 65
[56]	References Cited

# U.S. PATENT DOCUMENTS

	0.3. 110	IBNI DOCOMMINIS
487,343	12/1892	Bald .
502,964	<b>8/1893</b>	
506,414	10/1893	Caffrey .
521,460	6/1894	Ellioti .
615,447	12/1896	Grewman .
643,728	2/1900	Payne .
762,038	6/1904	Prazier .
970,828	9/1910	Hubbard .
3,163,438	12/1964	Bliss 280/43
3,256,125	6/1966	Tyler 156/184
3,382,921	6/1962	Picard 290/53
3,907,325	9/1975	Gaines et al
3,942,305	3/1976	Cameron 54/2
4,033,598	7/1977	King 280/63
4,071,257	1/1978	
4,095,815	6/1978	
4,135,730	1/1979	Yealck
4,313,611	2/1962	Heiaze, Jr. et al
4,326,367	4/1982	
4,667,973	5/1987	Bowers
4,817,975	4/1969	Saraydar
4,863,180	9/1989	Guarino et al
5,183,279	2/1993	Acorso et al
5,265,891	11/1993	Diehl 280/1.5
5,308,092	5/1994	Kiraly 278/118
5,607,170	3/1997	Capjon et al 280/63
5,857,686	1/1999	Milliagion
		- "

### FOREIGN PATENT DOCUMENTS

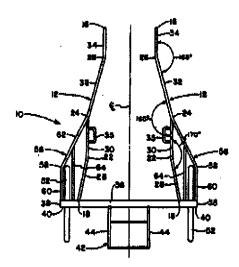
3413269 A1 4/1984 Germany .

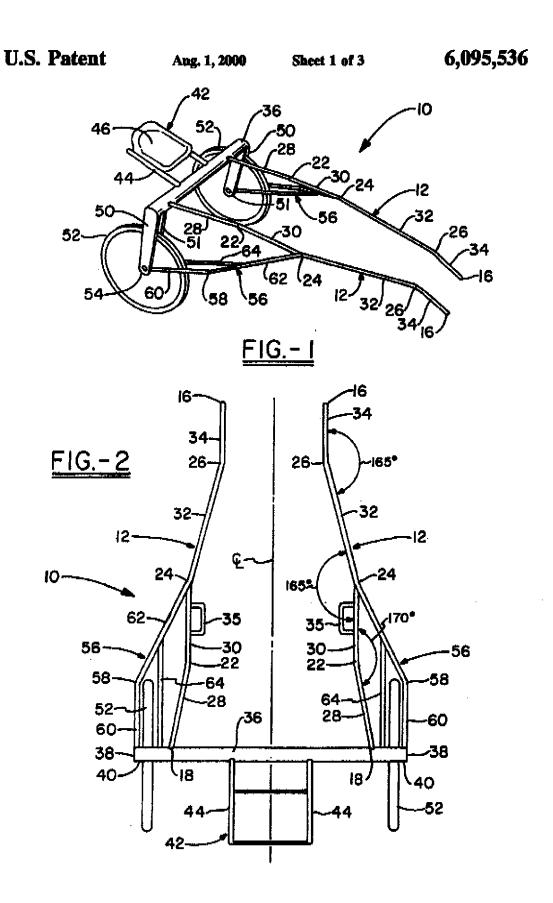
Primary Examiner—Christopher P. Bilia Assistant Examiner—Rashmi Sharma Attorney, Agent, or Firm—Renner, Kenner, Graive, Bobak, Taylor & Weber

[57] ABSTRACT

A racing sulky to be drawn by a home, the sulky including a pair of rails (12) each having a first end (16) and a second and (18). From the second and (18), a first segment (28) extends forwardly and inwardly, a second segment (30) extends forwardly and outwardly from the first segment (28) and creates a first bend (22) therebetween. A third segment (32) extends inwardly toward a centerline CL from second segment (30) and creates a second bend (24) therebetween. The first, second, and third segments (28, 30, and 32) extend upwardly at the same angle, and a fourth asyment (34) extends forwardly, outwardly, and downwardly from the third segment (32) terminating at the first end (16). A transverse member (36) spans the rails (12) and is attached to the second ends (15) of the rails (12). The transverse member (36) extends laterally beyond the second ends (15), and terminates in a pair of transverse member ends (38). A pair of outer strots (50) extend downwardly from each of the transverse member ends (38), and a pair of inner strats (51) spaced inwardly from the transverse member ends (38) also extend downwardly from the transverse member (36). A wheel (52) is rotatably mounted between each of the izner and outer struts (51 and 50). A pair of outer support arms (56) extend upwardly and inwardly from a lower end (54) of the outer strute (50) and attach to rails (12) at about or rearwardly of the second band (24). A pair of inner support arms (56) extend upwardly from the inner strats (51), and attach to the outer support arms (54). A seat (42) located between the rails (12) extends rearwardly and downwardly from said transverse member (36). When seat (42) is so angled, the driver is held in an aerodynamic position, reducing the drag on the horse.

#### 17 Claims, 3 Drawing Shoots



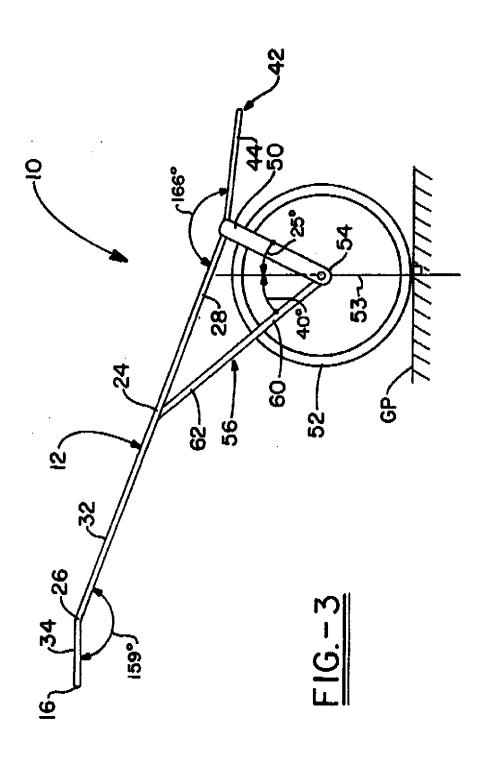


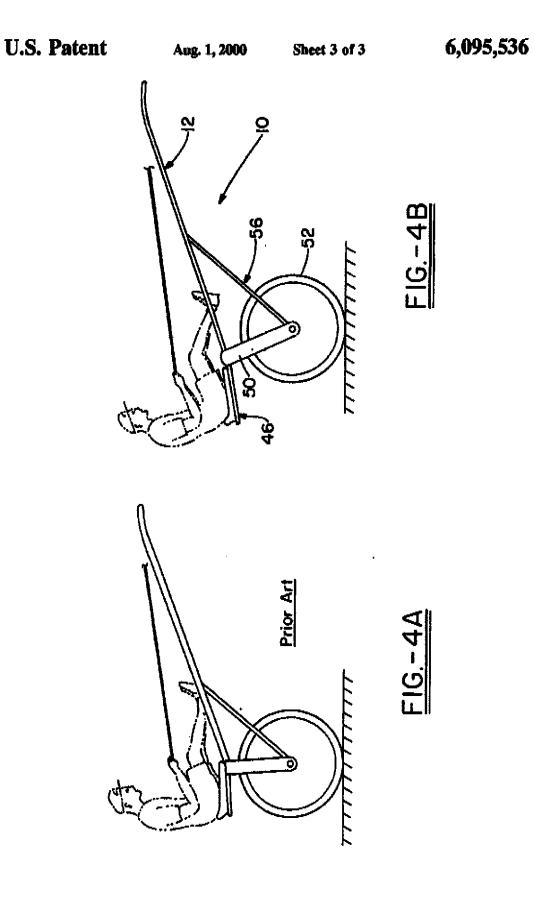
U.S. Patent

Aug. 1, 2000

Sheet 2 of 3

6,095,536





6,095,536

1

#### RACING SULKY

#### TECHNICAL FIELD

This invention relates generally to a house drawn sulky. More particularly, this invention relates to a racing sulky to be drawn by a trotting or pacing house in harness racing competition.

#### BACKGROUND OF THE INVENTION

In harness racing, a trotting or pacing horse closely draws a two-wheeled sulky or "bike" which supports a driver on a seat positioned between two (2) co-axially arranged wheels. The basic components of the sulky typically include two (2) forward extending spaced spart shafts attached at the rear to a wheel and seat support assembly. The horse is positioned between the two (2) shafts, which are attached to a saddle positioned at the horse's front shoulders or withers.

Spead and maneuverability are primary concerns in the design and construction of racing sulkies. Until now, however, little attention has been given to improving the design, construction and aerodynamics of racing sulkies to reduce overall resistance to the home's forward motion and thereby increase racing speed.

More recent sulky designs comprise a pair of spaced spart 25 generally longitudinally extending shafts extending forwardly from a transverse member on which the sulky's wheels are mounted. The rear portions of the shafts are attached to the transverse member. However, the shafts are spread wide apart over their entire length to accommodate the width of the horse. As a consequence, the shafts are in the air stream created by the horse as it runs, causing some wind registance. Also, the rear portions of the shafts, upon which stirrups are incunted, are spaced uncomfortably far apart, requiring the driver to spread his legs appreciably in 35 order to put his feet in the stirrups.

A driver's seat extends horizontally and rearwardly from the transverse member. As a consequence, the driver is held upright with his upper body perpendicular to the forward motion of the cart. In this position, the driver's upper body creates significant wind resistance. To reduce resistance, some drivers may lean rearwardly reducing the amount of wind resistence. But, this position is difficult for the driver to physically maintain, particularly while seeking to maintain control over both the horse and sulky.

Therefore, a need exists for a sulky that reduces resistance to the horse's forward motion while maintaining adequate stability and maneuverability. There is still a further need for a sulky that holds the driver in a stable seated position that reduces wind resistance created by the driver.

#### SUMMARY OF THE INVENTION

It is therefore an object of the present invention to provide a racing sulky that reduces resistance to the home's forward motion.

It is another object of the present invention to provide a racing sulky that reduces the intresion of the shafts into the airstream created by the borne as it runs.

It is another object of the present invention to provide a so racing sulky that holds the driver in a more aerodynamic position than in the past.

It is another object of the present invention to provide a racing sulky having forks that extend from the transverse member at an angle that is not perpendicular to the transverse was member, thereby holding the driver in an aerodynamic position.

2

It is another object of the present invention to provide a racing sulley having a seat that extends rearwardly from the transverse member and downwardly from the transverse member, such that the driver is hald in an effective aerodynamic position.

The foregoing and other objects of the present invention, which shall become apparent as the detailed description proceeds, are achieved by a racing sulky comprising a pair of rails, each having a first end and a second end, a transverse member attached to and interconnecting the second ends, the transverse member extending laterally outwardly beyond the second ends, a seat attached to the transverse member between the rails, a pair of struts extending downwardly and forwardly from each end of the transverse member, and a wheel rotatably mounted in each of the pair of struts.

Other aspects of the present invention are attained by a racing sulky to be drawn by a home, the sulky comprising a pair of rails each having a first end and a second end, a first segment extending forwardly and inwardly from the second end, a second segment extending forwardly and outwardly from the first segment creating a first bend therebetween, and a third segment extending exially inwardly from the second segment and creating a second bend therebetween, wherein the first, second, and third segments extend upwardly at the same angle, a fourth segment extending forwardly, outwardly, and downwardly from the third segment and creating a third bend therebetween and terminating at the first end, a transverse member attached to the second ends spanning the rails, extending beyond the second ends, and terminating in a pair of transverse member ends, a pair of outer struts extending downwardly from each of the transverse member ends, a pair of inner strats spaced inwardly from the transverse member ends and extending downwardly from the transverse member, a wheel retatably mounted between each of the inner and outer strats, a pair of outer support arms extending upwardly and inwardly from the outer struts and attaching to the rails at about the second bend, a pair of inner support arms extending upwardly from the inner strute and attaching to the outer support arms, and a seat located between the rails extending rearwardly from the transverse member.

Still mother object of the present invention is attained by a racing sulky to be drawn by a horse, comprising a transverse member having two ends and a middle portion, a pair of struts extending downwardly from each end of the transverse member, a pair of whosis rotatably mounted within the struts, a seat mounted to the middle portion of the transverse member and extending rearwardly therefrom, and a pair of rails forwardly extending from the transverse member, the rails having a first segment extending upwardly from the transverse member, a second segment extending inwardly from the first segment, a third segment extending outwardly and downwardly from the second segment, and a forth segment extending downwardly and outwardly relative to the third segment.

These and other objects of the present invention, as well as the advantages thereof over existing prior art forms, which will become apparent from the description to follow, are accomplished by the improvements hereinafter described and claimed.

### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of the racing sulky according to the present invention;

FIG. 2 is a top plan view of the racing sulky;

3

FIG. 3 is a side elevational view of the racing salky oriented as if attached to a horse with the driver shown in phantom;

FIG. 4A is a side elevational view of a prior art sulky with the driver shown in phantom lines; and

FIG. 4B is a side elevational view of the present invention with the driver shown in phantom lines.

# DETAILED DESCRIPTION OF THE INVENTION

One representative form of a racing sulky embodying the concepts of the present invention is designated generally by numeral 10 on the accompanying drawings. Recing sulky 10 may be constructed of chrome-molybdenum, other metals, polymeric materials, wood, or combinations thereof. Similarly, the materials of the various components making up a racing sulky 10 may vary with respect to one another, depending on the conditions affecting that particular components.

With reference to FIGS. 1 and 2, racing sulky 16 is ayumetrical with respect to a longitudinally extending center line CL. Racing sulky 10 includes a pair of generally longitudinally extending and spaced apart rails 12, which are symmetrical about center line CL. Rails 12 may be mirror images of each other. Each rail has two opposits ends, namely, a first end 16 and second end 18. The second end 18 is generally at or near the rear portion of the racing sulky 19.

Each rail 12 includes a plansity of spaced bends. These bends, from the second end 18 to the first end 16, are; an outward bend 22, an inward bend 24, and an outward bend 26. These bends divide rails 12 and 14 into a plansity of segments, namely, a first segment 28 extending from second end 18 to first bend 22, a second segment 30 extending from first bend 22 to second bend 24, a third segment 32 extending from second bend 24 to third bend 26, and a fourth segment 34 extending from third bend 26 to first end 16. As best shown in Fig. 3, first, accord, and third segments 28, 39, 32 extend upwardly relative to a plane parallel to the ground or ground plane GP. Fourth segment 34 extends outwardly and downwardly from third segment 32 and is substantially parallel to ground plane GP.

While the rails have been described in terms of segments, rails 12 may be unitary structures in which adjacent segments are integrally joined at the bends by weldments or, 45 alternatively, the rails may each comprise a single tubular member. With respect to the center line CL, first and third segments 28, 32 extend inwardly towards center line CL, and second segment 30 is substantially parallel to center line CL or may extend slightly inwardly. Fourth segment 34 of 50 rails 12 is substantially parallel to center line CL.

It should be understood that the spacing of rails 12 at each segment may be varied to a large extent based on the horse size, rider size, comfort, or bike stability. A representative spacing between the rails at the transverse member 36 is 53 about 44 inches. In similar fashion, the angle of each bend may vary as needed. Representative angles in the horizontal plane for each rail 12 maybe about 155°-175°, and preferably about 170° at first bend 22, about 155°-175°, and preferably about 165° at second bend 24, and about 60 155°-175°, and preferably about 165° at third bend 26. In the vertical plane, side rail 12 malors an angle of about 140°-170°, and preferably about 159° between third and fourth segments 32 and 34. Representative segment lengths are about 18 inches for first segment 28, about 17.5 inches 45 for second segment 39, about 27 inches for third segment 32, and about 13 inches for fourth segment 34.

Stirrups 35 may be attached to rails 12 and, as shown in FIG. 2, are preferably located on either first segment 28 or second segment 30. More preferably, stirrups 35 are located on second segment 30 of rails 12 and extend inwardly therefrom. Since second segment 30 may be located closer to center line CL, placing stirrups 35 on second segment 30 brings the stirrups closer together, reducing the distance that the driver's legs are agreed. A representative spacing between stirrups 35 as they extend inwardly from rails 12 is about 30 inches.

Second ends 18 of rails 12 attach to a transverse member 36. The transverse member 36 extends beyond second ends 18 and terminates in a transverse member end 38 forming an and portion 46 therebetween. It should be understood that second end 18 may be moved inwardly to the point of changing bend 22 from an inward bend to an outward bend. Accordingly, the length of transverse member 36 would be shortened along with the end portion 40. End portion 40 is sized to provide sufficient room for support strats and wheels mounted thereon, as will be described below. A representative transverse member length is about 60 inches, with about a 12 inch space between the support strats. As best shown in PIG. 1, transverse member 36 may have an aerodynamic profile, such as an airfoil shape to reduce drag. The airfoil transverse member cross-section may be best described as a stretched tear-drop shape lain on its side with the bottom of the tear-drop as the leading edge.

With reference to FIG. 2, a seat 42 may be attached to transverse member 36, preferably between second ends 18 of rails 12. The seat 42 may be attached in any conventional manner, or integrally formed with transverse member 36. As shown, seat 42 includes a pair of seat supports 44 and a seat portion 46 spanning the seat supports 44. As best shown in FIG. 3, when in use, the sent 42 extends rearwardly and downwardly from the transverse member 36 at an angle depending away from the horizontal. With respect to side rails 12, sort 42 extends rearwardly and upwardly. A represcatative angle between side rail 12 and seat 42 maybe about 150°-175°, and preferably about 166°. As best shown in FIG. 4B, when the driver is seated on seat 42, this angle places the driver in a partially reclined position that reduces the wind resistance created by the driver. While not complately understood, it is believed that the reclined position of the driver presents reduced cross-sectional area perpendicalar to the motion of the biks. Moreover, the reclined position is believed to cause the driver's upper body to act as an air full as shown in FIG. 4B, in contradistinction to an effective air shield as shown in FIG. 4A of the prior art.

To further place the driver in a more secodynamic position, strute 50 and 51 may be angled toward the front of the racing sulky 10. With reference to FIG. 3, the wheel strats 50 and 51 extend downwardly from end portion 40 of transverse member 36. An outer strat 50 is located at transverse member end 35 and an inner stret 51 is spaced inwardly along transverse member 36 from the outer strut. Strate 50 and 51 may extend generally vertically from transverse member 36, or they may be angled slightly to alter a driver's position or the weight distribution of the racing sulky 10. By extending struts 50 and 51 downwardly and forwardly from end portion 40, the driver is further reclined. Moreover, this angle moves a majority of the racing sulky's weight behind the center of wheals \$2, as will be described more fully below. The amount of space between outer and inner strute 50 and 51 depends on the width of wheel 52. A representative spacing may be between about 6-15 inches, and preferably about 12 inches with the inner strets 51 spaced from about 40-60 inches, and proferably about 48" apart from each other. Wheel 52 is fastened in a conventional manner to struts 50 and 51 at lower end 54.

Since the wheel 52 is fasteged to the lower and 54 of struts 50, which may be angled toward the forward end of racing sulty 10, a majority of the racing sulky's weight is placed behind a wheel center 53 when the strute 50 and 51 are so angled. It is believed that the center of gravity for the sulky extends through a point behind wheel centers 53. It should be understood that the center of gravity may be shifted behind wheel center 53 by otherwise placing a majority of the sulky's weight behind wheel center 53. Angling the struts 50, 51 forward, thereby moving the wheel center 53 forward is preferred to maintain the sulky in a more compact configuration. When the struts 50, 51 are angled toward the front of racing sulky 10, the centerline 53 extends downwardly through the transverse member 36 and behind a 15 wheel center represented by center line 53. The angle of the strats 50 and 51 may be about 0°-50°, more preferably 15°-45°, and most preferably about 25° clockwise from vertical. With the center of gravity so situated, racing stilky 10 exerts an upward force upon the horse when it is attached. When the driver is seated in the racing sulky 10, the upward force is magnified. Since the rails 12 act as a lever and the weight of the driver is positioned well behind the fulcrum of the interconnection of the struts 50, 51 to their respective wheels 52. Beneficially, this upward force lightens the 25 effective load on the horse and serves to make the horse feel lighter on its feet.

To provide additional stability, an outer support member 56 may extend upwardly from lower and 54 to side rail 12 and attach thereto at approximately the second band 24 of 30 side rail 12. Referring to FIG. 2, outer support member 56 has two segments joined by a inward band 58. In the vertical plane, both of the segments of outer support member 56 extend upwardly at the same angle, but in the horizontal plane (FIG. 2) the first segment 60 extends forwardly 35 parallel to center line CL and second segment 62 extends forwardly and inwardly from first segment 60.

An inner support member 64 extends from lower end 54 of inner strut 51 and may attach to second segment 62 of outer support member 56. By attaching inner support member 64 to the second segment 62 of outer support member 56 instead of attaching it directly to rail 12, the length of inner support member 64 is reduced. The reduced amount of inner support member material beneficially reduces the sulky's weight, inner support member 64 may extend upwardly at 45 the same angle as outer support member 56, as shown. Inner support member 64 extends toward the front of racing sulky 10 parallel to outer support member 56.

Both inner and outer support members 64, 56 serve to further stabilize struts 50, 51. The support members 64, 56 so provent distortion of strate 58, 51, which could affect wheel alignment or rotation. For example, any torsion of struts 50, 51 may cause the direction of the wheels 52 to fall out of parallel alignment with the center line CL. The misaligned wheels would hinder the motion of the sulky 10, reducing its 55 top speed and acceleration. Flexion of struts 50,51 may similarly cause misalignment as described above, or may cause one wheel 52 to rest at a different elevation than the other wheel, again, resulting in misdirection and/or reduced performance. Finally, if strute 50, 51 flex inwardly, the strute 60 may aqueous the wheels 52 increasing the frictional forces opposing the rotation of the wheels 52. Stabilizing stress 50, 51 and maintaining good wheel alignment allows the racing sulky 10 to track or follow the borse more readily. Improved tracking may be recognized by the driver as increased 45 responsiveness when turning or, in general, as improved maneaverability.

Thus, it can be seen that the objects of the invention have been satisfied by the structure and its method for use presented above. While only one embodiment has been presented and described, it is to be understood that the invention may be modified without deviating from the spirit of this invention. Accordingly, for an appreciation of the scope and breadth of the invention, reference should be made to the following claims.

What is claimed is:

- 1. A racing sulky to be drawn by a home, the sulky comprising:
  - a pair of rails each having a first end and a second end; a first segment extending forwardly and inwardly from said second end, a second segment extending forwardly and outwardly from said first segment creating a first bend therebetween, and a third segment extending axially inwardly from second segment creating a secend bend therebetween, wherein said first, second, and third segments extend upwardly at the same angle and wherein a reduction in secondynamic drag is provided during operation of the racing sulky;
  - a fourth segment extending forwardly, outwardly, and downwardly from said third segment, creating a third bend therebetween and terminating at said first end;
  - a transverse member attached to said second ends spanning said rails, extending beyond said second ends and terminating in a pair of transverse member ends;
  - a pair of outer struts extending downwardly from each of said transverse member ends;
  - a pair of inner struts spaced inwardly from said transverse member code and extending downwardly from said transverse member;
  - a wheel rotatibly mounted between each of said inner and outer struts; and
  - a seat located between said rails extending rearwardly from said transverse member.
  - 2. The racing sulking of claim 1, further comprising:
  - a pair of outer support arms extending upwardly and inwardly from said outer struts and attaching to said rails at about said second bend; and
  - a pair of inner support arms extending upwardly from said inner struts, and attaching to said outer support arms.
- The racing sulking of claim 1, wherein said segments and bends cooperate to form curved rails.
- The racing sulky of claim 3, further comprising a pair of stirrups attached to said ralls located inwardly from and adjacent to said second bends.
- The racing sullry of claim 4, wherein said struts extend downwardly and forwardly from said transverse member.
  - 6. A racing sulky to be drawn by a horse, comprising:
  - a transvense member having two ends and a middle
- a pair of struts extending downwardly from said transverse member;
- a pair of whosis rotatably mounted within said struts;
- a seat mounted to said middle portion of said transverse member and extending rearwardly therefrom; and
- a pair of rails forwardly extending from said transverse member said rails having a first segment extending inwardly from said transverse member, a second segment extending outwardly from said first segment, a third segment extending inwardly from said second segment, and a fourth segment extending downwardly and outwardly relative to said third segment wherein a

6,095,536

7

reduction in serodynamic drag is provided during operation of the racing sulky.

7. The racing sulky of claim 6, further comprising an outer support arm attached to said strats at one end extending upwardly and inwardly from said strats attaching to said 5 rails at an opposite end of said support arm.

 The racing sulky of claim 6, wherein said struts at least partially extend toward the front of the racing sulky.

9. The racing sully of claim 8, wherein said and extends rearwardly and downwardly from said transverse member. 10

10. The racing sulky of claim 9, wherein said seat extends upwardly in relation to said rails forming an angle within a range of about 150°–175° therebetween.

 The racing sulky of claim 10, wherein said angle is about 166°.

12. The racing sullry of claim 10, wherein said first, second, and third segments extend upwardly at the same angle and wherein said fourth segment is parallel to the ground plane.

8
13. The racing sulky of claim 9, wherein said second and fourth segments are substantially parallel to a cooter line.

fourth segments are substantially parallel to a conter line.

14. The racing suity of claim 13, wherein each of said outer support arms is divided into a first arm segment extending forwardly substantially parallel to said center line and upwardly from a lower end of said outer strut, and a second arm segment extending inwardly from said first arm segment attaching to said ralls.

15. The racing sulky of claim 14, further comprising a pair of stirrups extending inwardly from said rails located adja-

cont said second segment.

16. The racing sulky of claim 8, wherein both of said struts extend forwardly at an angle in the range of about 15°-45° relative to a vertical plane passing through the center of said wheel.

17. The racing sulky of claim 16, wherein said strats are disposed at an angle of about 25° relative to said vertical plane.

. . . . .

# **EXHIBIT B**

Exhibit B

# (12) United States Patent Stein et al.

(54) RACING SULKY

(10) Patent No.:

US 6,354,613 B1

(45) Date of Patent:

Mar. 12, 2002

(76)	inventora:	Craig Stein, 8795 Crow Dr.,
٠,		Macedonia, OH (US) 44067; Aaron L.
		Mulrooney, 3064 W. Edgerton Rd.,
		Silver Lake, OH (US) 44224
(*)	Notice:	Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
(21)	Appl. No.	: 09/574,286
(22)	Piled:	May 19, 2000
	Re	lated U.S. Application Data
(63)	Continuatio	na-in-part of speliculion No. 09/430,224, filed on

(63)	Continuation-in-part of application No. 09/430,224, filed on Oct. 29, 1999, now Pat. No. 6,095,536.
------	---

(51)	Int. CL <sup>7</sup> B62C 1/06
(52)	U.S. Cl
(58)	Field of Search 280/63, 64, 65

# (56) References Cited

### U.S. PATENT DOCUMENTS

521,460 A	•	6/1894	Elllott	200/63
615.447 A	٠	12/1698	Greatmen	280/63
643.728 A	•	2/1900	Payne	280/63
762.088 A	٠	6/1904	Prezier	280/63
970.528 A	•	9/1910	Hubbard	280/63
3,163,438 A	٠	12/1964	Bliss, Jr	280/63

3,256,125	A	٠	6/1966		280/63
3,388,921		٠	6/1968		280/63
4,033,598	Α	•	7/1977	King	280/63
4,071,257	A	٠	1/1978	Discount	280/63
4,078,829	A	٠	3/1978	Davis	250/657
4,095,815	Α	٠	6/1978	Müchell	280/63
4,135,730	A	٠		Yunick	280/65
4,325,367	A	٠	4/1982	Cockett	54/2
4,667,973	A	٠	5/1987	Bowers	280/63
4,217,975	A	٠			280/53
4,863,180	A	٠	9/1989	Ouarlag et al	
5,183,279	A	•		Anemo et al	
5,607,170	A	•	3/1997	Capies et al	
5,857,686	٨	٠		Militagion	
6,095,536	A	٠	10/1999	Stein et al	260/63

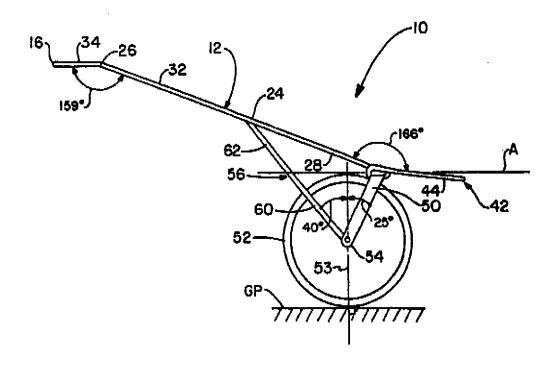
### \* cited by examiner

Primery Examiner—Christopher P. Ellis Assistant Examiner—Rashmi Sharma (74) Automey, Agent, or Firm—Renner, Kenner, Greive, Bobak, Taylor & Weber

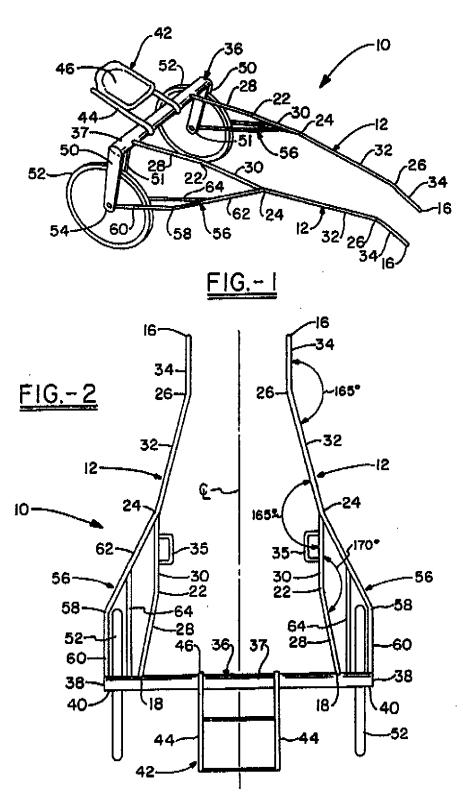
## 7) ABSTRACT

A racing sulky, including an arch including a transverse member and a pair of struta, a pair of rafts adjacent the arch, the struta extending downwardly and forwardly from the transverse member, wherein the transverse member defining a main plane, supported on the plane being oriented substantially parallel to a ground plane, and a wheel rotatably supported on each of the strats.

# 11 Claims, 3 Drawing Sheets



U.S. Patent Mar. 12, 2002 Sheet 1 of 3 US 6,354,613 B1

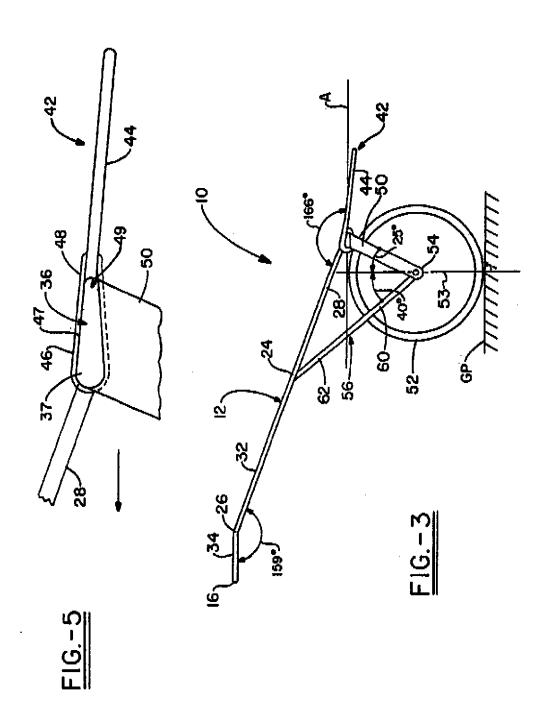


U.S. Patent

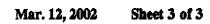
Mar. 12, 2002

Sheet 2 of 3

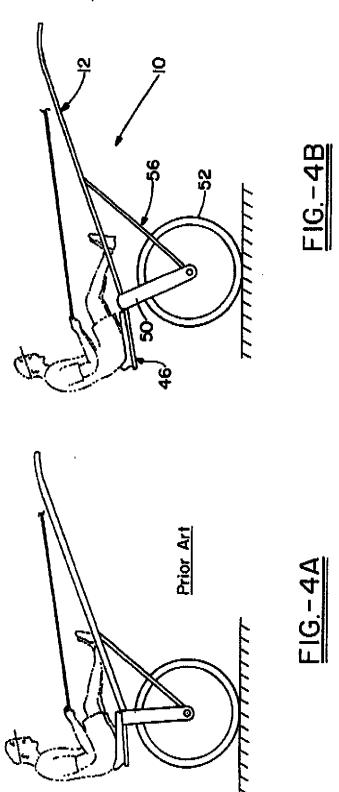
US 6,354,613 B1



U.S. Patent



US 6,354,613 B1



## US 6,354,613 B1

1

### RACING SULKY

# CROSS REFERENCE TO RELATED APPLICATION

This is a continuation-in-part of patent application Ser. 5 No. 09/430,224, filed Oct. 29, 1999, now U.S. Pat. No. 6,095,536 antitled "Racing Sulky."

#### TECHNICAL FIELD

This invention relates generally to a horse drawn sulky. More particularly, this invention relates to a racing sulky to be drawn by a trotting or pacing horse in hamess racing competition.

#### BACKGROUND OF THE INVENTION

In harness racing, a trotting or pacing horse closely draws a two-wheeled sulky or "bike" which supports a driver on a seat positioned between two (2) co-axially arranged wheels. The basic components of the sulky typically include two (2) forward extending spaced apart shafts attached at the rear to a wheel and seat support assembly. The horse is positioned between the two (2) shafts, which are attached to a saddle positioned at the horse's front shoulders or withers.

Speed and maneuverability are primary concerns in the design and construction of racing sulkies. Until now, however, little attention has been given to improving the design, construction and serodynamics of racing sulkies to reduce overall resistance to the horse's forward motion and thereby increase racing speed.

More recent sulky designs comprise a pair of spaced spart generally longitudinally extending shafts extending forwardly from a transverse member on which the sulky's wheels are mounted. The rear portions of the shafts are attached to the transverse member. However, the shafts are spread wide spart over their entire length to accommodate the width of the horse. As a consequence, the shafts are in the air stream created by the horse as it runs, causing some wind resistance. Also, the rear portions of the shafts, upon which stirrups are mounted, are spaced uncomfortably far apart, requiring the driver to spread his legs appreciably in order to put his feet in the stirrups.

The driver's seat extends horizontally and rearwardly from the transverse member. As a consequence, the driver is held upright with his upper body perpendicular to the forward motion of the cart. In this position, the driver's upper body creates significant wind resistance. To reduce resistance, some drivers may lean rearwardly reducing the amount of wind resistence. But, this position is difficult for the driver to physically maintain, particularly while seeking 50 to maintain control over both the horse and sulky.

In addition to the awkward positioning of the driver, known seats are generally attached at a portion of the upper surface of the transverse member by a pair of bars or tabes, which typically have a circular cross-section. Since conventional transverse members are circular or oval in cross-section, this type of attachment may be tangential and, thus, weak. Moreover, the limited joint area focuses the static forces created by the seated driver and the dynamic forces created during a race on a small area of the transverse commender. It is thus desirable to increase the joint area to improve joint strength.

Further, the conventional attachment of known seats is above the transverse member and places the seat and, thus, the driver farther from the ground, resulting in a raised center of gravity which adversely affects the bike's stability, tracking, and handling. 2

During a race, a poorly tracking bike appears to "walk" with the wheels alternately advancing one in front of the other. This "walking" motion is believed to increase resistance to the bike's forward motion.

Separately, underslung sulkies, those having struts that extend forwardly from the transverse member, tilt the transverse member back. In sulkies having non-circular transverse member cross-sections, the tilting exposes a larger portion of the member's surface area to the wind, increasing resistance to the sulky's forward motion.

Therefore, a need exists for a sulky that reduces resistance to the horse's forward motion while there is still a further need for a sulky that holds the driver in a stable seated position that reduces wind resistance created by the driver.

### SUMMARY OF THE INVENTION

It is therefore an object of the present invention to provide a racing sulky that reduces resistance to the horse's forward motion.

It is another object of the present invention to provide a seat in a racing sulky that has an increased contact area where it is attached to the arch of the sulky than in the past.

At least one of the foregoing objects of the present invention are achieved by a racing sulky comprising a pair of rails, each having a first end and a second end, an arch having an upper surface adjacent the second ends, having a pair of struts extending downwardly from each end of the transverse member, a wheel rotatably mounted in each of the pair of struts, and a seat attached to the arch across substantially the entire upper surface of the arch.

The present invention further provides a seat in a racing sulky to be drawn by a horse, the sulky comprising a pair of rails adjacent an arch having a pair of wheels rotatably supported thereon, the seat comprising a pair of support members wrapped substantially around the arch and extending rearwardly from the arch, forming a seat receiving portion, a seat supported on the seat receiving portion of the support members.

The present invention further provides a racing sulley to be drawn by a horse, comprising an arch having a pair of wheels rotatably supported thereon, said arch having an airfoil cross-section, and a pair of rails adjacent the arch.

Other objects of the present invention are attained by a racing sulky, comprising an arch including a transverse member having a non-circular cross-section and a pair of struts, a pair of rails adjacent the arch, the struts extending downwardly and forwardly from the transverse member, wherein the transverse member has a major axis, the major axis baing oriented substantially parallel to a ground plane, and a wheel rotatably supported on each of the struts.

Still another object of the present invention is attained by a seat support supporting a seat in a racing sulky having an arch having a cross-section rotatably supporting a pair of whoels and a pair of rails adjacent the arch for attaching the arch to a horse, the seat support comprising a support member in supporting relation to the seat and a portion of the support member extending adjacent a majority of the arch in terms of its cross-section, the portion attaching the support member to the arch.

Yet further objects of the present invention are attained by a racing sulky, comprising an arch having a non-circular cross-section, the cross-section having a leading end and a trailing end, a pair of wheels rotatably supported on the arch, a pair of rails adjacent the arch, and a seat supported by at least one support member, the support member having a first

end and a second end, the seat being supported on the second end, and the first end being located adjacent behind the transverse member adjacent to the trailing end.

At least one of the objects of the present invention, as well as other advantages thereof over existing prior art forms, which will become apparent from the description to follow, are accomplished by the improvements hereinafter described and claimed.

#### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of the racing sulky according to the present invention;

FIG. 2 is a top plan view of the racing sulky;

FIG. 3 is a side elevational view of the racing sulky 15 oriented as if attached to a horse with the driver shown in phantom:

FIG. 4A is a side elevational view of a prior art sulky with the driver shown in phantom lines; and

FIG. 4B is a side elevational view of the present invention <sup>20</sup> with the driver shown in phantom lines.

FIG. 5 is an enlarged side elevational view depicting the relation of the seat support member and the arch.

# DETAILED DESCRIPTION OF THE INVENTION

One representative form of a racing sulky embodying the concepts of the present invention is designated generally by numeral 10 on the accompanying drawings. Racing sulky 10 may be constructed of chrome-molybdenum, other metals, polymeric materials, wood, or combinations thereof. Similarly, the materials of the various components making up a racing sulky 10 may vary with respect to one another, depending on the conditions affecting that particular component.

With reference to FIGS. 1 and 2, racing sulky 16 is symmetrical with respect to a longitudinally extending center line CL. Racing sulky 10 includes a pair of generally longitudinally extending and spaced apart rails 12, which are symmetrical about center line CL. Rails 12 may be mirror images of each other. Each rail has two opposite ends, namely, a first end 16 and second end 18. The second end 18 is generally at or near the rear portion of the racing sulky 10.

The rails may be of any form known in the art, including 43 straight, bowed, or angular. The following description discreases the rails of U.S. Ser. No. 09/430,224 by way of example only. As shown in PIG. 2, each rail 12 may include a plurality of spaced bends. These bends, from the second ond 18 to the first end 16, are: an outward bend 22, an inward 50 bend 24, and an outward bend 26. These bends divide rails 12 into a plurality of segments, namely, a first segment 28 extending from second end 18 to first bend 22, a second segment 30 extending from first bend 22 to second bend 24, a third segment 32 extending from second bend 24 to third 55 bend 26, and a fourth segment 34 extending from third bend 26 to first end 16. As best shown in FIG. 3, first, second, and third segments 28, 30, 32 extend upwardly relative to a plane parallel to the ground or ground plane GP. Fourth segment 34 extends outwardly and downwardly from third segment so 32 and is substantially parallel to ground plane GP.

While the rails have been described in terms of segments, rails 12 may be unitary structures in which adjacent segments are integrally joined at the bends by weldments or, alternatively, the rails may each comprise a single tubular es member. With respect to the center line CL, first and third segments 28, 32 extend inwardly towards center line CL,

and second segment 30 is substantially parallel to center line CL or may extend slightly inwardly. Fourth segment 34 of rails 12 is substantially parallel to center line CL.

It should be understood that the spacing of rails 12 at each segment may be varied to a large extent based on the horse size, rider size, comfort, or bike stability. A representative spacing between the rails at the transverse member 37 is about 44 inches. In similar fashion, the angle of each bend may vary as needed. Representative angles in the horizontal plane for each rail 12 maybe about 155°-175°, and preferably about 170° at first bend 22, about 155°-175°, and preferably about 165° at second bend 24, and about 155°-175°, and preferably about 165° at third bend 26. In the vertical plane, side rail 12 makes an angle of about 140°-170°, and preferably about 159° between third and fourth segments 32 and 34. Representative segment lengths are about 18 inches for first segment 28, about 17.5 inches for second segment 38, about 27 inches for third segment 32, and about 13 inches for fourth segment 34.

Stirrups 35 may be attached to rails 12 and, as shown in FIG. 2, are preferably located on either first segment 28 or second segment 30. More preferably, stirrups 35 are located on second segment 30 of rails 12 and extend inwardly therefrom. Since second segment 30 may be located closer to center line CL, placing stirrups 35 on second segment 30 brings the stirrups closer together, reducing the distance that the driver's legs are spread. A representative spacing between stirrups 35 as they extend inwardly from rails 12 is about 30 inches.

Second ends 18 of rails 12 are adjacent and may be attached to an arch 36. The arch 36 may include a transverse member 37 and struts extending downwardly from transverse member 37 to rotatably support whoels as will be described below. The transverse member 37 may extend beyond second ends 18 and terminate in a transverse member and 38 forming an end portion 40 therebetween. It should be understood that second end 18 may be moved inwardly to the point of changing bead 22 from an inward bend to an outward bend. Accordingly, the length of transverse member 37 would be shortened along with the end portion 40. End portion 40 is sized to provide sufficient room for support struts and wheels mounted thereon, as will be described below. As best shown is FIG. 5, such 36 may have an aerodynamic profile, such as an airfoil shape to reduce drag.

With reference to FIG. 2, a seat 42 may be attached to transverse member 37, between second ends 18 of rails 12. The seat 42 may be attached in any conventional manner, or integrally formed with transverse member 37. As shown, seat 42 includes a pair of seat supports 44 and a seat portion 46 epanning the seat supports 44. As best shown in FIG. 3, when in use, the seat 42 extends rearwardly and downwardly from the transverse member 37 at an angle depending away from the horizontal. In this way, seat 42 is at least partially tucked behind transverse member 37, which is believed to reduce drag and lower the driver's center of gravity. With respect to side rails 12, seat 42 extends rearwardly and apwardly. A representative angle between side rail 12 and seat 42 may be about 150°-175°, and preferably about 166°. As best abown in FIG. 4B, when the driver is scated on scat 42, this angle places the driver in a partially reclined position that reduces the wind resistance created by the driver. While not completely understood, it is believed that the reclined position of the driver presents reduced cross-sectional area perpendicular to the motion of the bike. Moreover, the reclined position is believed to cause the driver's upper body to act similar to an air foil as shown in FIO, 4B, in

contradistinction to an effective air shield as shown in FIG. 4A of the prior art.

Purther, supports 44 attach to transverse member 37 at a first end. To increase the area of attachment, the first end 46 may extend about a substantial portion of the perimeter of transverse member 37. The support 44 may have a first end that extends over at least one-tenth of the perimeter 47, at least 25%, 50%, 75%, or completely surround the crosssectional perimeter 47 of arch 36. Alternatively, the area of attachment may be increased by apreading the first end 10 radially outwardly. In either case, the increased area of attachment increases the area to which forces from the seat 42 are transmitted.

In the embodiment shown, first end 46 includes a thin band of material 48 that substantially surrounds the transverse member 37, defining a loop. It will be appreciated that multiple bands 48 may be used, such as a first band on the top of erch 36 and a second band on the bottom of erch 36 to attach support member 44 to such 36. The supports 44 are thus adjacent and substantially behind the trailing end of 49 of transverse member 37. It is believed that placement of the supports 44 at least initially behind and adjacent the rear edge of erch 36 reduces the drag created by supports 44.

To further place the driver in a more serodynamic position, strate 50 and 51 may be angled toward the front of the racing sulky 10. With reference to FIG. 3, the wheel strats 50 and 51 extend downwardly from and portion 40 of transverse member 37. An outer strut 50 is located at transverse member end 38 and an inner strut 51 is spaced inwardly along transverse member 37 from the outer strat. Struts 50 and 51 may extend generally vertically from transverse member 37, or they may be angled slightly to alter a driver's position or the weight distribution of the racing sulky 10. By extending strats 50 and 51 downwardly and forwardly from end portion 40, the driver is further reclined. Moreover, this angle moves a majority of the racing sulky's weight behind the center of wheels \$2. When the strats are angled forward of the transverse member 37, the transverse member tilts up. For transverse members 40 baving non-circular cross-sections, such as ovals, ellipses, air folis, and others, that are horizontally oriented, their major axis is parallel to the ground plane (G.P.), the tilting of the sulky presents a larger portion of their surface area into the air stream. As shown in FIG. 3, the major axis A of transverse member 37 is made parallel to the ground plane when the strats are forwardly angled to reduce wind resistance, Wheel 52 is festened in a conventional manner to strate 50 and 51 at lower end 54.

Since the wheel 52 is fastened to the lower end 54 of struts 50 50, which may be angled toward the forward end of racing sulky 10, a majority of the racing sulky's weight is placed behind a wheel center 53 when the struts 50 and 51 are so angled. The angle of the struts 50 and 51 may be about 0°-50°, 15°-45°, or about 25° clockwise from vertical.

To provide additional stability, an outer support member 56 may extend upwardly from lower end 54 to side rail 12 and attach thereto at approximately the second band 24 of side rail 12. Referring to FIG. 2, outer support member 56 has two segments joined by a inward bend 56. In the vertical 60 plane, both of the segments of outer support member 56 existed operately at the same angle, but in the horizontal plane (FiG. 2) the first segment 60 extends forwardly parallel to center line CL and second segment 62 extends forwardly and inwardly from first segment 60.

An inner support member 64 extends from lower and 54 of inner strut 51 and may attach to accord acgment 62 of

outer support member 56. By attaching inner support member 64 to the second augment 62 of outer support member 56 instead of attaching it directly to rail 12, the length of inner support member 64 is reduced. The reduced amount of inner support member material beneficially reduces the sullry's weight. Inner support member 64 may extend upwardly at the same angle as outer support member 56, as shown. Inner support member 64 extends toward the front of racing sulky 10 parallel to outer support member 54.

Both inner and outer support members 64, 56 serve to further stabilize struts 50, 51. The support members 64, 56 prevent distortion of strate 50, 51, which could affect wheel alignment or rotation. For example, any torsion of struts 50, 51 may cause the direction of the wheels 52 to fall out of parallel alignment with the center line CL. The misaligned wheels would hinder the motion of the sulky 10, reducing its top speed and acceleration. Plexion of strets 50,51 may similarly cause misalignment as described above, or may cause one wheel 52 to rest at a different elevation than the other wheel, again, resulting in misdirection and/or reduced performance. Finally, if struts 50, 51 flex inwardly, the struts may squeeze the wheels 52 increasing the frictional forces opposing the rotation of the wheels 52. Stabilizing strets 59, 51 and maintaining good wheel alignment allows the racing sulky 10 to track or follow the borse more readily. Improved tracking may be recognized by the driver as increased responsiveness when turning, reduced resistance to the borse's forward movement or, in general, as improved maneuverability.

Thus, it can be seen that at least one of the objects of the invention have been satisfied by the structure and its method for use presented above. While only one embodiment has been presented and described, it is to be understood that the invention may be modified without deviating from the spirit of this invention. Accordingly, for an appreciation of the scope and breadth of the invention, reference should be made to the following claims.

What is claimed in:

1. A racing sulley, comprising:

an arch including a transverse member having a noncircular cross-section and a pair of struts;

a pair of rails adjacent said arch;

- said struts extending downwardly and forwardly from said transverse member, wherein said transverse member has a major axis, said major axis remaining substantially parallel to a ground plane throughout an operation of said sulky; and
- s wheel rotatably supported on each of said strate.

2. A racing sulky, comprising:

- an arch including a transverse member and a pair of struts wherein said transverse member has an airfoil-shaped cross-section, said struts extending downwardly and forwardly from said transvense member, whereis said transverse member has a major axis, said major axis being oriented substantially parallel to a ground plane;
- a pair of rails adjacent said arch; and
- a whosi rotatably supported on each of said strats.
- 3. The racing salky of claim 1, further comprising:
- a sent adjacent said arch; and
- a support member in supporting relation to said seat, wherein said support member is located behind the transverse member and attached thereto.
- 4. The racing sulky of claim 3, further comprising a band of material extending from said support member adjacent said arch, wherein said support member is attached to said arch by said band.

# US 6,354,613 B1

- 5. The racing sulky of claim 4, wherein said band substantially engireles said arch and is bonded thereto.
- 6. The racing sulky of claim 5, wherein said band is bonded by stitch welds.
- 7. The racing sulky of claim 1, further comprising a seat 5 adjacent said arch, said seat supported on a support member attached to a perimeter said arch, wherein said support member is attached to said arch by a band of material contacting a majority of said perimeter.
- 8. The racing sulky of claim 7, wherein said band wraps 10 substantially around said perimeter.

8

- 9. The racing sulking of claim 7, wherein said band is welded to said arch.
- 10. The racing salking of claim 9, wherein said band is
- stitch wolded.

  11. The racing sulky of claim 7, wherein said support member is located behind said arch, and said band extends forwardly and upwardly from said support members substantially conforming to at least a portion of the perimeter of

11/99 The JS-44 civil cover sheet and the information contained herein neither replace nor supplement the filing and service of pleadings or other papers as required by law, except as provided by local rules of court. This form, approved by the Judicial Conference of the United States in September 1974, is required

for the use of the Clerk of	Court for the purpose of	f initiating the civil	docket shee	et.		
I. (a) PLAINTIFFS				DEFENDANT	rs	
	CK SULKY LTD., Corporation			CARL CALFI An Individ	•	
(b) County of Residen	ce of First Listed:	SUMMIT		NOTE: IN LAN	dence of First Listed ID CONDEMNATION CASES, INVOLVED.	WASHTENAW USE THE LOCATION OF THE
(c) Attorneys (Name, Christopher A.	Address and Telephons Mitchell	Number)		Attorneys (if K		
2001 Commonweal Ann Arbor, MI 4 (734) 662-0270	th Blvd., Ste 3 8105	01				
II. BASIS OF JURISE	OICTION (Place on "X"	In One Box Only)		ZENSHIP OF PR	/)	ce an "X" in One Sox for Plaintif
☐ 1 U.S. Government Plaintiff	(U.S. Govern	n ment Not a Party)	Citizer	of This State	1 🗓 1 Incorporated a	PLA DEF or Principal 1 4 13 In This State
☐ 2 U.S. Government Defendant	☐ 4 Diversity (Indicate Citi: in Item III)	zenship of Parties	Citizer	of Another 🗆	• · · · · · ·	and Principal
1,0 14 , 10				or Subject of Deign Country	3 □ 3 Foreign Nation	n 🗆 6 🗅
IV. NATURE OF SU		n One Box Only) RTS	FORE	ITURE/PENALTY	BANKRUPTCY	OTHER STATUTES
□ 110 Insurance □ 120 Marins □ 130 Miller Act □ 140 Negotiable Instrument □ 150 Recovery of □ Overpayment and Enforcement of Judgment □ 151 Medicare Act □ 152 Recovery of Defaulter Student Loans (Excl. Veterans) □ 153 Recovery of Overpaymen of Veteran's Benefits □ 160 Stockholders' Suits □ 190 Other Contract □ 195 Contract Product Liability ■ REAL PROPERTY □ 210 Land Condemnation □ 220 Foreclosure □ 230 Rent Lease & Sjectment □ 245 Tort Product Liability □ 290 All Other Real Propert	320 Assault, Libel And Slander  330 Faderel Employers' Uability 340 Marine 345 Marine Product Liability 355 Motor Vehicle Product Liability 360 Other Personal Injury  CIVIL RIGHTS  441 Voting 442 Employment 443 Housing/ Accommodations 444 Welfare	PERSONAL INJU  362 Personal Injun Med. Malprai Med. Med. Malprai Med.	ry—   62 etice   62 ry—   63 sonal   64 ct   65 RTY   69 ding   71 nage   71 nility   72 DNS   73 /acate   75 Cther   75	O Agriculture O Other Food & Drug Drug Related Selzure of Property 21: 881 O Liquor Laws O R.R. & Truck O Airline Regs. O Occupational Safety/Health O Other LABOR O Fair Labor Standards Act O Labor/Mgmt.Reporting & Disclosure Act O Railway Labor Act O Other Labor Litigation O Empl. Ret. Inc. Security Act	□ 423 Withdrawal 28 USC 157  PROPERTY RIGHTS □ 820 Copyrights □ 830 Patent □ 840 Trademark  SOCIAL SECURITY □ 861 HIA (1395tf) □ 862 Black Lung (923) □ 863 DIWC/DIWW (405igi) □ 864 SSID Title XVI	□ 410 Antitrust □ 430 Banks and Banking □ 450 Commerce/ICC □ 460 Deportation □ 470 Racketeer Influenced & Corrupt Organizations □ 810 Selective Service □ 850 Sacuritles/Commodities/ Exchange □ 875 Customer Chellenge 12 USC 3410 □ 891 Agricultural Acts □ 892 Economic Stabilization Act □ 893 Environmental Matters □ 894 Energy Allocation Act □ 895 Freedom of Information Act □ 900 Appeal of Fee Determination Under Equal Access to Justice
ORIGIN  Original □ 2	State Court (Cite the U.S. Civil S	Remanded from Appellate Court Statute under which y		from tated [] 5 anoth spec aned	Litigatio	
•	Infringement -	tional statutes unless	•	eq.		
VII. REQUESTED IN COMPLAINT:	UNDER F.R.C	6 IS A CLASS ACT	TIÓN S D	EMAND	CHÉCK YES onl JURY DEMAND	1
VIII. RELATED CAS	E(S) (See instructions):	JUDGE	2/		DOCKET NUMBER	
13 June	2007-	SIGNATURE	TORNEYO	F RECORD		

# Case 2:07-cv-12528-LPZ-DAS Document 1 Filed 06/13/07 Page 27 of 27

# PURSUANT TO LOCAL RULE 83.11

1.	Is this a case that has been previously dismissed?	□ Yes ឱ No
lf yes, giv	e the following information:	
Court:	· · · · · · · · · · · · · · · · · · ·	
Case No.:		
Judge:		
		•
2.	Other than stated above, are there any pending or previously discontinued or dismissed companion cases in this or any other court, including state court? (Companion cases are matters in which it appears substantially similar evidence will be offered or the same or related parties are present and the cases arise out of the same transaction or occurrence.)	및 Yes <sup>X</sup> 결 No
If yes, giv	e the following information:	
Court:		
Case No.	:	
Judge: _		
Notes:		