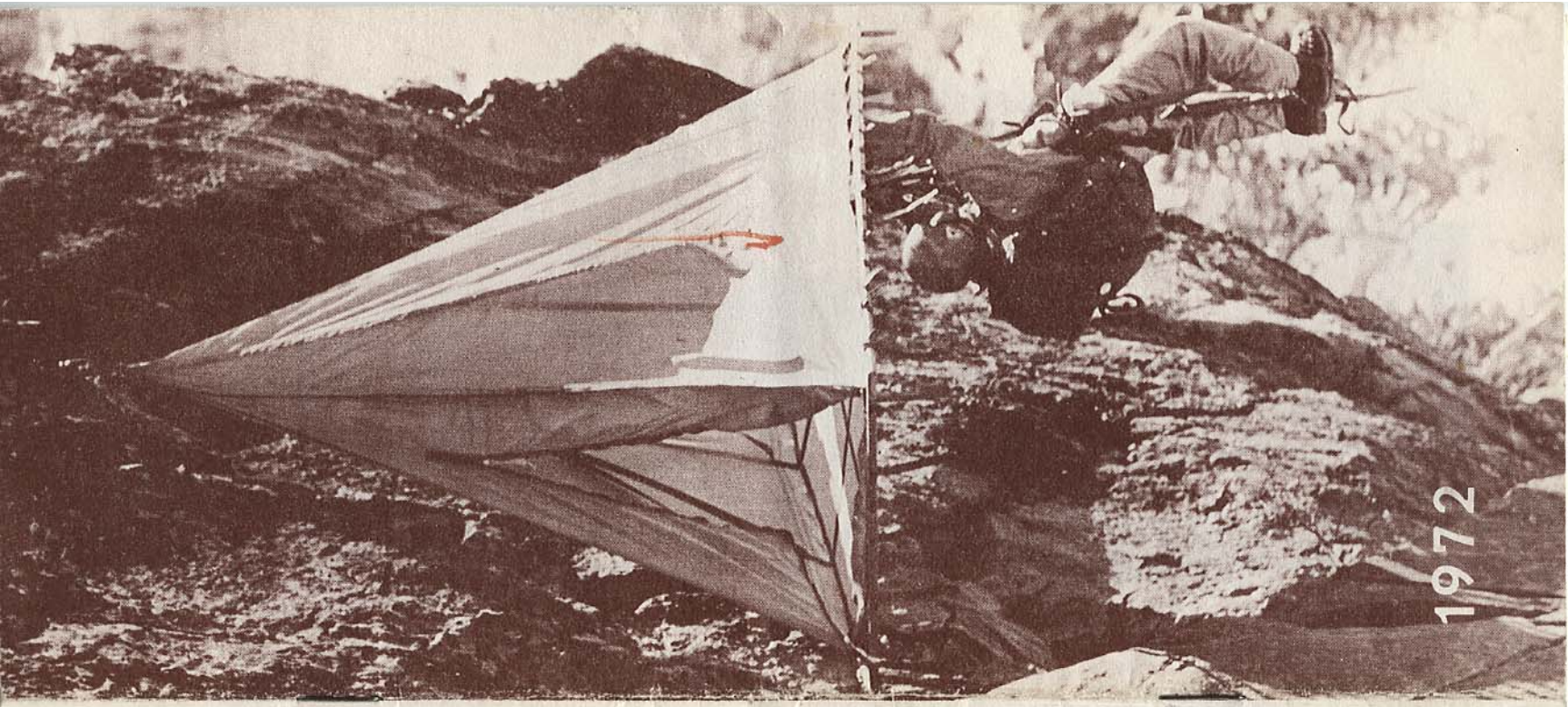


SNUG MOUNTAINEERING

P. O. Box 122, Sun Valley, Idaho 83353

BULK RATE
U. S. POSTAGE PAID
KETCHUM, IDAHO
PERMIT NO. 8

DO NOT FORWARD
ADDRESS CORRECTION REQUESTED
RETURN POSTAGE GUARANTEED

LOWE ALPINE SYSTEMS CONCEPT

Lowe Alpine Systems is an indirect result of the increasing trend toward the "alpine" style of climbing. It is our goal to provide special equipment for the alpine climbs of the near future. This is not to say we are directing ourselves toward the "technicratic" aspect of climbing, but more to provide equipment necessary for the transitional step from expeditionary tactics to alpine climbing of extreme degree. With pure rock climbing rather fully developed, the direction ahead lies with climbing the many outstanding rock and ice walls of the world. To do this on an expeditionary scale destroys a good deal of the aesthetic reward such climbs are capable of providing. To do this on an alpine scale, until recently, has been nearly impossible. It is with the idea of opening up the possibilities of the various forms of "Grand Alpinism" that we direct ourselves in the highly competitive equipment field. We seek to avoid competition by providing only newly designed equipment of an original nature. Any equipment of conventional design is only reluctantly produced to provide the end refinements to the original design concept. It is here we draw the line. What is good is good, and there is no need for us to provide a line of equipment duplicating what has already been refined and proved. Please give our equipment a critical but analytical test. We are by no means perfect. Any observations, ideas, or criticims you have about our equipment will be welcomed by our small staff. After all, our criticisms are what have provided our design incentive.

Thanks,

Greg Lowe

Lance Wilcox

ALPINE DOWN COAT	**$68.50**
HOOD	**$ 7.50**
Colors	**Purple. Gold, Blue, Lime Green**

The LAS coat is being offered as the lightest baffled down coat made. It incorporates 3" baffles of .75 oz. rip-stop which eliminates down shift, excessive weight and wind cooling. High quality European goose down combined with a higher down loading reduces efficiency loss when damp. Designed for the alpine climber with trim fit and freedom of movement incorporated in the design. Average weight is 25 oz.

EXPEDITION PACK **$55.00**

Colors **Red, Blue**

Expedition and extended Alpine climbs place different demands on pack designs than do normal backpacks or alpine tours. With some of these demands in mind the LAS pack was conceived and tested on the West Face of the Grand Teton in winter and many climbs in South America and Canada. After nearly a year of testing, this pack is being offered with the following features which provide nearly unlimited versatility and comfort.

Basically, it consists of a single large compartment bag with a large flap pocket. This allows versatility and still allows four-quart waterbottles and small objects to be carried conveniently in the top flap pocket. The large primary compartment has a side-pull arrangement which allows the load to be compressed into a thin profile to reduce forward lean. The pack is designed with a suspension system which is integrated with quick release chest strap which frees the shoulders and arms of the holddown effect caused by most web suspensions. The entire suspension arrangement (including waistbelt) is fully padded for comfort. Two phenolic staves provide complete flexibility necessary for difficult climbing, yet transmit the load to the waistbelt effectively. A carabiner loop allows the chest strap to be used to support the back while resting on jumars. All additional attachments are made of nylon and are carefully thought out to be as efficient as possible. Ice axes are carried spike down to reduce hangups in chimneys. Foam pads are tied on the underside of the flap to allow the main compartment to be opened without loosing the pad. The entire pack is constructed of 9 oz. coated nylon and is double sewn throughout. The pack converts easily for hauling and has additional hardware loops sewn in the bottom support webs. The sidepulls may be used to carry skiis and the pack is also an extremely fine ski touring and backpacking pack offering superb versatility.

Patents Pending

ALPINE PACK **$25.00**

Colors **Red, Blue**

Our Alpine Pack is a scaled-down expedition pack without staves, with an internal foam pad designed for bivouacs. It is intended for rugged use by the devoted alpine climber. The bottom and sides (6" up) are covered with H.T.V. ––– an extremely tough and abrasion-resistant vinyl, coated nylon fabric. As with the expedition pack, all materials are synthetic and therefore, easily cleaned. Material is 9 oz. coated pack nylon.

WOOL JACKET $36.50

Colors Dark or Light Grey

Designed for the alpine climber, this wool jacket allows full versatility and warmth in wet or dry weather. It is designed to offer full protection without being overly thick or bulky. Designed with a two-way, nylon coil zipper; with overlap velcro closure cuffs; and velcro tab adjustable turtleneck collar. The collar may be folded down for temperature adjustment. This design incorporates two large side pockets and a smaller brest camera pocket. Made of double layer 22 oz., 90% wool, 10% nylon.

LAS 2½ LB. SLEEPING BAG $104.50

Colors Lime Green
Navy

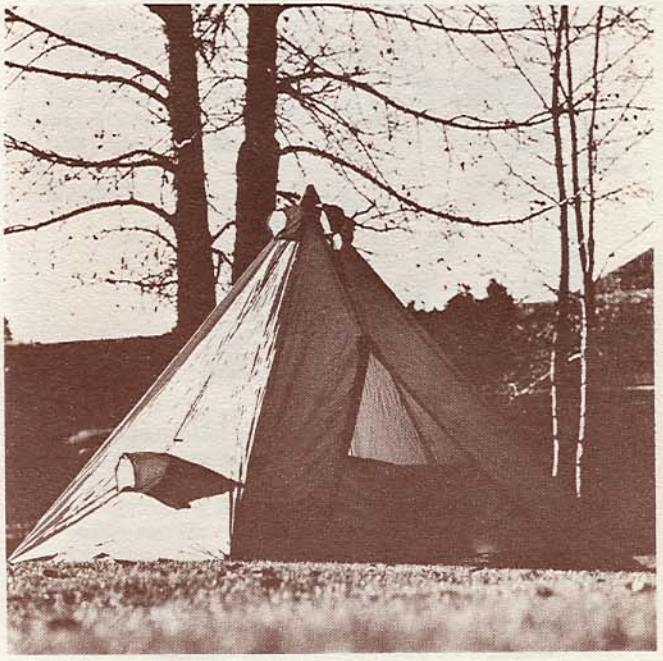
The LAS 2½ lb. bag is the most efficient and reliable yet made. Features include 6" box tube construction, and 1.9 oz. outer covering. Baffle material is 1.1 oz. rip-stop having qualities of being downproof, cutting the shift of down from one baffle to the next and the tight weave reduces the pumping of air through the bag and subsequent convection cooling. All baffles are sewn in with a tucked seam so no threads are exposed thus giving protection from abrasion and reducing the possibility of losing a baffle inside the bag because of broken stitching. It also makes the bag more comfortable because the nylon thread cannot scrape against the bare skin. The zipper is 2/3 length locking delrin tooth type. It is sewn onto the outside with a 6" overlap folding to the inside. A protective tape is sewn underneath the zipper to reduce snagging of the rip-stop material. The top of the bag is loaded heavier than the bottom making better use of the down by increasing the list on top. As the down on the bottom is compressed by the body weight, its insulation value is decreased. Therefore, the foam pad provides nearly all the insulation needed. The 10" diameter oval dual baffle foot and the 89" by 34" size makes this bag roomy enough for most people. A longer model is produced in limited quantity for those over 6'6".

4-MAN ALPINE TENT $106.00

Color Lime Green

The LAS 4-Man Alpine Tent is designed with the following prerequisities in mind: 1.) Low wind profile. 2.) Standing height to allow easy movement and reduce tent fatigue. 3.) Steep tent walls for rapid drainage and limited snow buildup. 4.) Vent system utilizing heat transfer, flow through draft design. 5.) Fine nylon mesh vent coverings to prevent penetration by gnats, mosquitoes, and spindrift. 6.) Pitchable on its floor space, requiring no additional side pulls (for side cut snow platforms, etc.). 7.) Easily pitched at night. 8.) No exposed seams, reducing wick-through during storms. 9.) Larger than normal door to facilitate ease of entrance and exit with bulky equipment. 10.) Sturdy and completely weathertight. 11.) Bright color but not of the traditional hue which discolors food and causes psychological tent fatigue. 12.) Extremely simple and compact. 13.) Light as possible for maximum efficiency.

The LAS tent fulfills these design prerequisites remarkably well. It is extremely easy to pitch, offers complete protection from weather, pitches on its own floor space and is the lightest four-man tent designed, weighing under five pounds. Because of design simplicity, this tent offers the most economical form of shelter in terms of weight and cost per man.

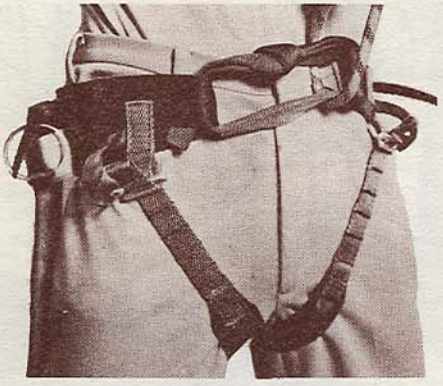


Hardware slings have always been uncomfortable with heavy loads of iron. The LAS sling is fully padded and cannot rotate off the shoulder. It is constructed of 2" nylon web and 1" rolled nylon web which will not hangup in carabiner gates. Both carabiner and piton slings are combined in a single unit. The design allows for a great deal of comfort for climbs taking more than one day.

LAS HARDWARE SLING

$10.50

LAS SWAMI BELT



$10.50

The LAS Swami incorporates the following features: 1.) Large waist belt. 2.) Leg loops which may be folded up or used for added safety. 3.) Two hammer holsters are sewn to the waist belt which are soft enough to sleep on yet stiff enough to remain open. 4.) Light aluminum alloy buckles are used on the leg loops, allowing the loops to be dropped without untieing from the waist web. The LAS Swami is simple yet versatile in design and avoids many of the problems evident with other commercial designs.

LURP TENT $196.50

(Limited Use of Reasonable Placements)

Color **Lime Green with Yellow Floor**

It has become obvious that certain mountain ranges of the world are, because of logistics, poorly suited for climbing of any other nature than expeditionary forms. Certain wall climbs in such places as Patagonia are subject to extreme weather conditions. Until recently the use of large quantities of fixed rope in event of a storm, has been the only solution. It is common practice to wait out such storms in well established camps. To climb some of the larger walls in alpine style has been out of the question as hammocks cannot be used in extreme weather conditions of the nearly ever present storms which occur. The only logical alternative to hammocks is a suspendable tent designed to withstand the extreme winds and forces evident during alpine storms. With this in mind the LAS LURP Tent was designed with the following features: 1.) A single anchor point plus backup, tie in cable (less prone to wind cutting). 2.) A steep drainage, low oscillation, length of height ratio. 3.) Three vents of 8" diameter and storm design located in logical ventilation locations, plus two zipper entrances. 4.) Four inner wall adjustment loops to allow hanging on any angle slope. 5.) Coated or uncoated 1.9 oz. rip-stop nylon walls. 6.) 1" 1,000 lb. test suspension webs. 7.) 9 oz. coated nylon floor crossed at logical intervals with 1" web. 8.) 1-1/8" O.D. .071 wall thickness "F" (aircraft) temper magnesium tube frame, connected with shock cord and backup nylon line for ease of erection with adjustable screw tighteners incorporated. 9.) Corner tie-down loops to prevent all oscillation. 10.) Two to one mechanical advantage suspension webs with special design, 7075 aluminum alloy buckles.

Patents Pending

SEE COVER PHOTO

LAS BIVOUAC BAG $89.50

Color **Gold**

After much design work the LAS Bivouac Bag is being offered as the ultimate in light weight. Construction is of 1.1 oz. rip-stop nylon with 4" baffles which absolutely prevent down shift. Down loading is high to reduce insulation loss due to dampness. A full length side zipper (delrin) combined with zippered arm openings allows easy eantrance in hammocks or tight quarters and lets the climber or hiker eat or sort equipment while inside the bag. The seat section is double and no seams are exposed. The foot is round and is large enough for heavy boots.

Stephen - This was one model we worked out in 71.

CAM NUT

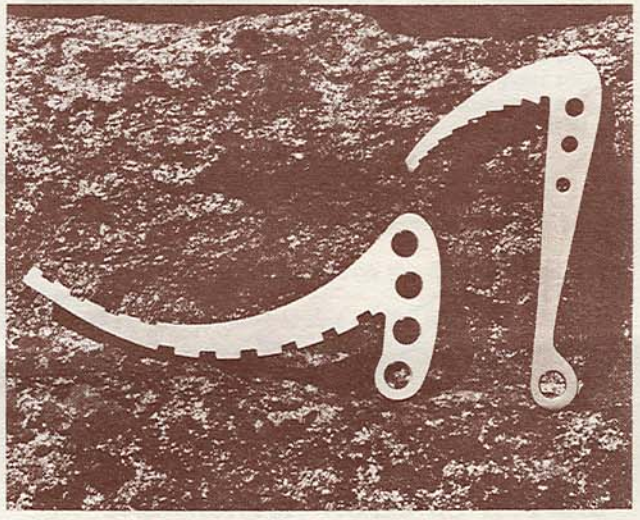
The LAS Cam Nut is the first nut designed to work in parallel walled cracks. This patented design provides a new freedom for the climbing purist. It may be used in regular or parallel nut placements with no compromise in performance. Lightweight; easily placed; strong and effective; the LAS Cam Nut allows full aesthetic expression with no damage to the rock. Available in sizes from ½" to 4". Anadized aluminum and magnesium. Available January 1972.

ICE HARDWARE

Available January 1972

GRIPPLING HOOK

The LAS version of the cliff hanger principle, and has been around (in European forms) for a number of years.



Patents Pending

SNARG PITON

The Snarg Piton is a new piton design which has the following advantages over regular ice pitons and works on a curve lock priciple.

1.) Unidirectional design incorporating more efficient utilization of material strength.

2.) Slow melt-out due to large curvature displacement.

3.) Very good holding power due to low ice loading under stress and large curvature displacement.

4.) Easily placed and removed.

5.) Nearly twice the strength per weight of equivalent screws.

Two of these pitons (Snargs) may be placed to form an internal scissors – thereby resisting outward pull. These pins are designed to melt in ice by utilizing step notches to form all blade tapers. 4130 chromolly has been utilized with good results at a relatively high temper. This large size is also available in 7075-T6 aluminum alloy.

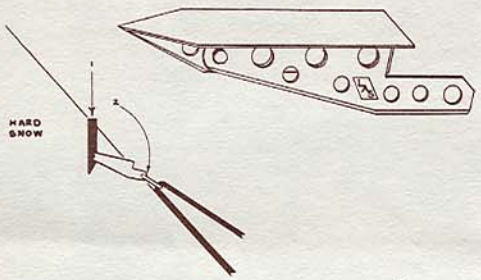
ZARKHOV ICE FLUKE

The Zarkhov was designed to bridge the gap between the large deadman and hard ice pitons. It is used in neve ice or very hard snow where a tied-off picket would be used. Zarkhovs will not fluke out because the final angle or the blade is fixed. Tensile strength is achieved when the eye of the cutting blade breaks at around 3,000 pounds. The blade is 7178 aluminum alloy and is the strongest and hardest aluminum ever made. The main body is 2024 aluminum, very tough and semi-malleable to resist pounding, without developing fatigue cracks.

The Zarkhov is driven by the main body. At a 45 degree angle in vertical ice, the cutting blade is driven through the ice to its fluke position.

Patents Pending

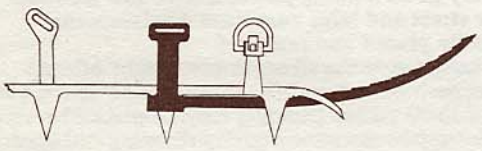
FIG. 2



GRIPPON CRAMPON ATTACHMENT

A simple attachment allows crampons to be essentially as secure as hammers and provides a much less tiring platform to stand on. After much testing, they were found to work very well in ice from 50 degrees up. Penetration in water ice is (because of leg placement) usually sufficient. Attachment is quick and secure to Chouinard Crampons.

Patents Pending



PRODUCT TESTING

Lowe Alpine System's equipment undergoes extensive testing before being introduced. All products are guaranteed. We at LAS feel it is extremely important to provide full customer service. We welcome your advice or criticisms, and hope we can serve your requirements in the near future. LAS equipment has been utilized successfully on many technical climbs – a few of which are listed below.

1968: First winter ascent on the North Face of the Grand Teton.

1968: First winter ascent on the North Face of the London Spire.

1970: First winter ascent on the South Face of the London Spire.

1971: First winter ascent of the Black Ice Coulour on the West Face of the Grand Teton.

Photo Credits: Dick Wiethorn, Sun Valley, Idaho

NEW CAMERA AND LENS PROTECTION

- Safe for backpacking over rugged terrain.
- Made of heavy, coated nylon.
- Cushioned with a foam pad to protect your camera and camera lens from falls and bumps.
- Lightweight.
- Compact.
- Opens quickly, closes securely.
- Water repellant.
- Easily cleaned.
- Tested successfully in the Northwest-Yukon by professional photographers and climbers.
- Custom made orders for other size cameras, lens, scientific equipment, and binoculars. Prices on request.
- Packs for standard lens.

50 mm lens pack: $10.70
21 mm with lens hood pack: $10.90
400 mm lens pack: $13.81
135 mm lens pack: $11.70

NAME _____

Address _____

City _____ State _____ Zip _____

Quan.	Description	Size	Color	Price
	Sub Total			
	Ida. Cus. 3% Sales Tax			
	Ins. 5¢ each $20.00			
	Postage Costs			
	TOTAL			

PARCEL POST RATES

Weight—1 pound and not exceeding (pounds)	Zones							
	Local	1 and 2	3	4	5	6	7	8
2....	$0.60	$0.65	$0.70	$0.75	$0.80	$0.90	$1.00	$1.05
3....	.60	.75	.80	.85	.95	1.10	1.20	1.35
4....	.65	.80	.85	.95	1.10	1.30	1.40	1.60
5....	.70	.85	.90	1.05	1.20	1.45	1.65	1.90
6....	.70	.95	1.00	1.15	1.35	1.60	1.85	2 10
7....	.75	1.05	1.10	1.25	1.50	1.75	2.10	2.35
8....	.75	1.10	1.15	1.35	1.60	1.90	2.30	2.60
9....	.80	1.15	1.20	1.45	1.75	2.05	2.45	2.85
10....	.80	1.20	1.30	1.55	1.90	2.20	2.65	3.10

Consult your local post office for zoning information.