



all those trips. His job was photographing the lands of the National Park System and proposed additions to it—a dream assignment. The photographs he took in Yellowstone in 1921 helped save the park from incursions by powerful irrigation interests. Mather used many Gleason pictures when lobbying for the creation of new parklands.

A Christmas card Gleason and his wife sent to friends in 1930 contained some early conservation lobbying, too. It read, "...we beg to make one request:

USING DISREGARDED TENTS TO MAKE GOOD QUALITY OUTDOOR GEAR



COLLAGING A SHELL JACKET

The snow hit the tent softly. There was no wind. I must have been lying motionless for an hour. Just watching the ceiling. Finally I exhaled and turned in my sleeping bag. Every-thing is bathed in red. The others in the tent are equally motionless. We are four cocoons, stranded like earthenware. The situation must be the same in the two-Continued on page 115

writer Fukushima and George Wal-terstein, Larry Campbell, Dan Eaton, Curt Howard and Don Liska. Their objective was to climb the 25,000-foot mountain at Gase. Ford to its head at the icecap. 25 miles away, and then descend onto the glacier on the other side. No one had ever done this before.

The American East Greenland Expedition of 1971 was made by non-backpacking? The fifty-mile backpack detailed on the follow- ing pages required transporting its members over 3,600 miles via jet-prop plane, truck, jeep, and motor-ized raft to reach the trailhead. Yet the adventure was worth it.

DRAPING TENTS TO INFORM SHAPES

54

Continued on page 116

For a 5-day hike, Kerswill carries only 16-17 1/2 pounds, including camera

BACKPACKER 3



Nothing like a bear



The 1971 climbing party set up base camp overlooking the valley south of Mount Everest

viewed the same, a dusty air-
do-village, the O'Hare Field
askan arctic. But the log cabin
-a "general store," jammed to
with canned food and bug
the ex-hippie couple who
ing a solid start in free enter-
st card leapt at my eye. Yes,
bly, the north faces of the
photo shot from the exact
69 base camp. At the time
side in our obscurity near
ers of Arrigetch Creek,
can be only on an expedi-
here eight years later, the

DRAPING TENTS TO INFORM SEAMS



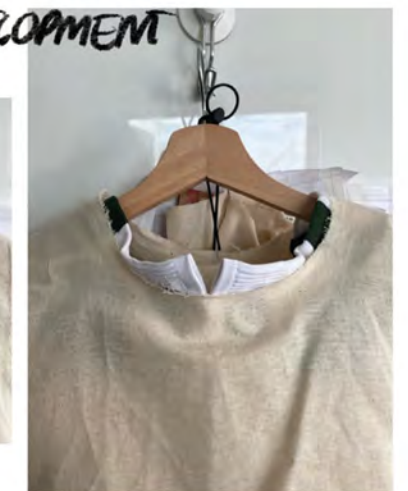
USING REPURPOSED SOCKS AS TSHIRT COLLARS



SIDE SPLIT DETAIL



SOCK COLLAR PLACEMENT DEVELOPMENT

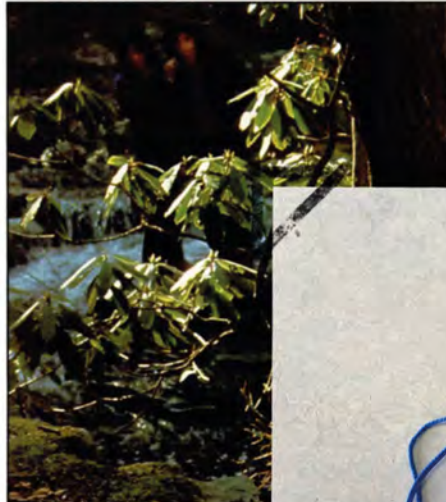


BAGS MADE FROM DISREGARDED SLEEPING BAG STORAGE SACKS

EMS Heliomaster/541.95 "Has certain features ordinarily found only on more expensive packs. Frame by Universal."



REI Cruiser/528.95 "Despite its low price, this pack provides the basic features of a contoured frame and divided pack with a modicum of quality. Ideal for the beginner."



CROSS BODY BAG



When you Talon cor with wear is good, only Many latched a ternally in upper ends. stichn vers of nyl is pinned by addi

convene traps are e lowest ash rings shoulder carry ca trap is al a pock n flap. It day pack ng to con hell arc two stru the hchug the frame wo vertica is pins. I ented by

background information, how to use and maintain. However, some of the information on fabrics, zippers and threads is somewhat out of date. The book also lists the fabrics and accessories.

last longer if it is on a heavier fabric. It is used, day sacks, on the other hand, can be made of 5 by 8 or cloth.

Thread The best all round thread is a Dual Duty. It's strong, visible, containing the ad (synthetic polyester core shell) with a visible core. The cotton increases the by swelling when wet to mied by the needle. Dual easier to sew with than thread sometimes recom- is suitable for hand or ring. It's available at many departments in a rainbow



Needles Hand sewing requires use of appropriate thickness and a size which fits the middle finger of the hand sewing the needle. Stronger sewing: hand needles and come in a from #1 (6/6) to #17 (1/2000). A page of assorted shapes (usually through 10) will be suitable for hand work. If you have trouble trying a needle, get "crow" needles (steel of sturco, or buy the handy needle-threading gadget sold at sewing departments. Heavy canvas and a good sewing machine call for a good "household" needles, including the and curved needles.

To determine the correct needle size, cut a few inches of the fabric and push it through it. A needle and thread to push through is too big, while one that bends or breaks is too small.



After sewing and threading needles, make a knot by winding two cut ends twice around the to your first finger. Then, with your thumb, roll the loops off the finger and down on the thread to form a tidy knot.

Stitches Two hand stitches are pointed for sewing gear. The back to the basic construction stitch for new seams, looks like a machine stitch.

BACKPACK

BACKPACK

When making a closure, a fit the opening weal could be trou compartment

52

Creating the hip-rop pocket (reach back on), there are have YKK nylon like greased light-hyime. A 25-inch side of the frame ver compartment accessibility. These are attached bag for a sleeping for an ice axe, so low on the es must be used additional methn to a cross frame is oped in stress. as But the ed cult to pack. This str t tra er. Da com leg es th use per ch.

When making a closure, a fit the opening weal could be trou compartment

52



BACKPACKER 1



What to do if your sleeping bag gets wet.

It happens even to the most experienced hikers: The day comes when your sleeping bag ends up wet, maybe sopping. Now you have a problem—especially if the temperature dips sharply.

You're aware of course that left is a factor in of your b wet, insu is imp ally an Wri s is v fiber cross ture get or ou at v our our ll p

"Dacron" fiberfill II batting will not shift in a properly constructed and interlined bag. You can tumble wash and dry it. Low cost a big factor You'll find "Dacron" fiberfill II now.

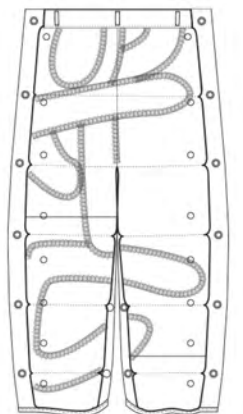
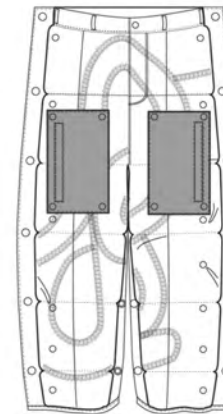
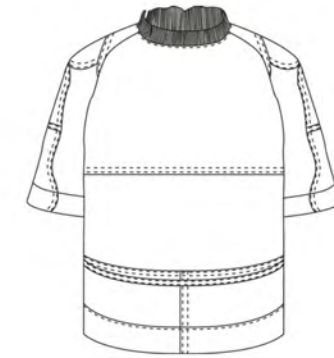
QUILT TROUSERS BECOMING THE QUILT



TROUSER TOLLE PHOTOS



TROUSERS TURN INTO A SCARF



UNPACKING THE HAMMOCK JACKET

QUILT TROUSERS ATTACHING TO HAMMOCK JACKET

How to get the most warmth out of your sleeping bag

In the interest of lightness of weight, everything you carry in your pack should serve as many purposes as possible. Clothing and sleeping gear constitute the greatest amount of bulk in your pack and probably the most weight. Thus, you should choose clothes and sleeping gear that are of maximum use from a variety of combinations of the items.

For example, instead of long pants, carry pants and a pair of shorts. You can wear the shorts alone, or both with the pants. The same with shirts: one heavy shirt, one weight shirt—one with short sleeves, one with long sleeves. Carry two light sweaters instead of one or jacket. Even better, weight wool sweater and shell. This gives you two possibilities: sweater alone or sweater and shell together.

Additionally you will be warmer in several layers of clothing than in one layer of heavy clothing. The shell, light sweater and two shirts will keep you warmer than one shirt and a

Guide to Loft/Temperature Ratios of Sleeping Bags

Roughly the following table indicates the amount of loft one needs for temperature rating of his bag. Many factors influence the warmth of any bag at those temperatures, including "cold" in the bag itself, your own metabolism, wind, and humidity. As a rule of thumb the

temperatures are:
40°
30°
20°
10°
0°

The Most Warmth

All Of Your Gear

you find yourself on such as zero when you start to snow 30 degrees of things you

the warmth

sleep inside a bag.

This increases the

by 5 to 10 degrees

it cuts the wind

substantially.

of the wind if

his cuts down

all factor.

sleeping bags

er. This retains

all of you.

side of a hill

the valley

ly on clear

air lifts up

floor on clear

can be as

degrees dif-

en the tem-

the valley floor

way up a hill.

or poly bags

et or hands

ights, but

when you

sleep yourself inside

any plastic you will cause

moisture to condense inside,

and that will cause you to get

wet.

BACKPACKER—8

the entryway: away from prevailing wind, downhill if possible, but never up-slope (heavy cold air flows at sur-



a foot or more weight and adjust their size to a comfortable, workable limit.

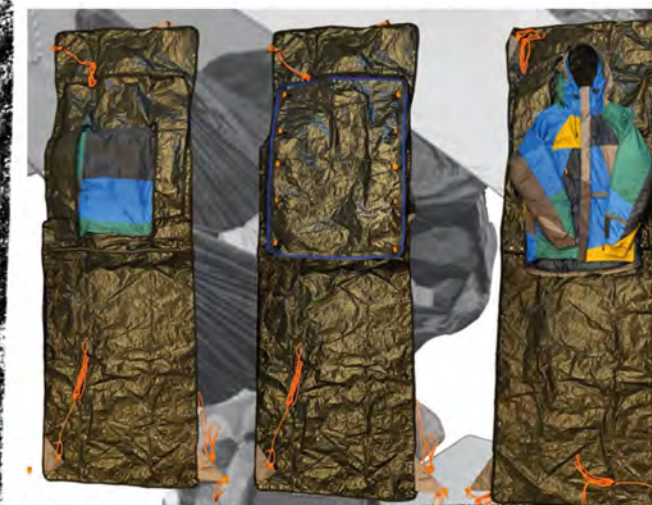
Once the first circle is laid down, taper off the first few blocks to create

put one hand inside to help move the blocks while they are being tapered to fit. With proper tapering on the ends each block will stay in place by itself, even up near the top. To

Rick Nelson having coffee in bed in the warm igloo while outside a fierce wind blows across the mountain peak.



55



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BY PRESS
STUDS



All the
comforts you
can't find at home

"Imagine wearing a good sleeping bag."

Clean, fresh air - A crystal stream teeming with brook trout. And the comfort of a new Browning Wind River Sleeping Bag. Filled with Prime Northern Goose Down to keep you warm down to -10°F. With a convenient two-way nylon zipper you can open at the bottom for ventilation in the summer. Covered and lined with rip stop nylon, differentially cut to allow the down to obtain its full loft. With a tricot side center stopper to prevent shifting of the down.

A 5" down filled weather strip the full inside length of the zipper and a triangular down filled gusset at the base of the zipper to keep cold air from sneaking in through the zipper.

