

2-July-96

**CAMERON BALLOONS LTD (THUNDER & COLT)
SERVICE BULLETIN: ENVELOPES SB2**

**Subject: THUNDER AND COLT
TURNING VENTS**

**Title: Addition of reinforcing tapes to Thunder and Colt turning
vents**

**Parts affected: All Thunder, Colt and Thunder and Colt envelopes Fitted
with turning vents and having a Constructor's Number prior
to 3550. (all Oswestry-built envelopes).**

**Reason for
modification: To ensure that all turning vents have adequate
reinforcement at the upper and lower ends.**

Classification: CAA Mandatory

**Compliance: Inspection to be performed within ten flying hours from
receipt of this bulletin. The inspection may be performed
by the Pilot. Reinforcement, if required, within twenty flying
hours of the inspection.**

**Accomplishment
Instructions. Inspect the balloon as described in section A.
Add additional tapes (if required) as described in section B.**

If in doubt please contact the factory.

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Section A Inspection.

Unpack the balloon and locate all the turning vents.

Inspect the turning vents for the presence of Horizontal reinforcing tapes at the top and bottom of each vent opening. Ensure that the reinforcing tapes are at least as long as shown in Figures 1 to 4. The reinforcing tapes may be fitted either to the inside or to the outside of the balloon envelope.

If the reinforcing tapes conform to the diagrams then make the following entry in the balloon's logbook:-

"Envelope inspected according to the instructions of Cameron Balloons
Service Bulletin No. Envelopes SB2. Reinforcing tapes present. No further
action necessary."

Sign and date this logbook entry.

If the reinforcing tapes do not conform to the diagrams then additional tapes must be fitted.

Section B. Fitting of additional reinforcing tapes

Materials Required:

Load Tape: Woven Polyester or nylon tape, Minimum strength 680 kg. Minimum width 19mm. Length as required.

Sewing Thread: Three Strand Metric 40 Nylon or Polyester thread.

Tools Required:

Sewing Machine: Lockstitch sewing machine with a sharp needle, set to a stitch length between 2.5 and 4 mm.

General Procedure.

1. The ends of stitch lines must always be "locked" by overlapping or backtacking to prevent the new seam from pulling apart.
2. The cut ends of the load tape should be sealed with a flame or hot knife in order to prevent fraying.

Fitting of tape

Sew a single continuous length of loadtape to the inside of the balloon along the entire length indicated by the appropriate diagram. The tape should be sewn to the balloon with two lines of stitching, approximately 8 mm apart. The tape may be sewn over any reinforcing tapes already present.

Strengthen the load tape to load tape joints at each end of the turning vent openings (Fig 5) by heavy backtacking with a 3-step zig-zag machine or by sewing a flag box (Fig 6).

This process should be repeated for every location where the reinforcing tapes do not conform to the diagrams Fig 1-4.

The reinforcing tapes should be inspected by an approved inspector and the following entry made in the balloon logbook.

"Turning vents reinforced as specified in Cameron Balloons
Service Bulletin No. Envelopes SB2"

Sign and date the logbook.

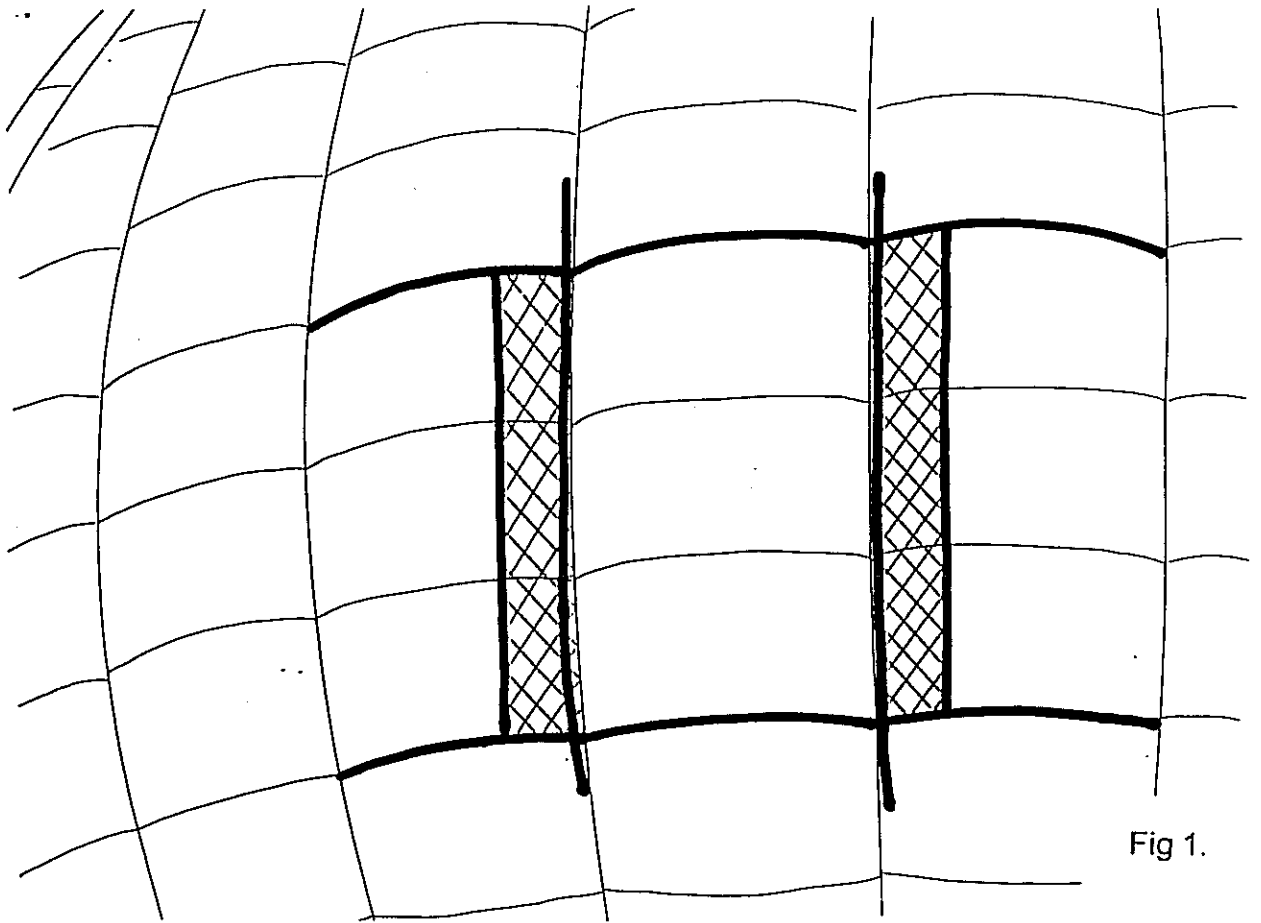


Fig 1.

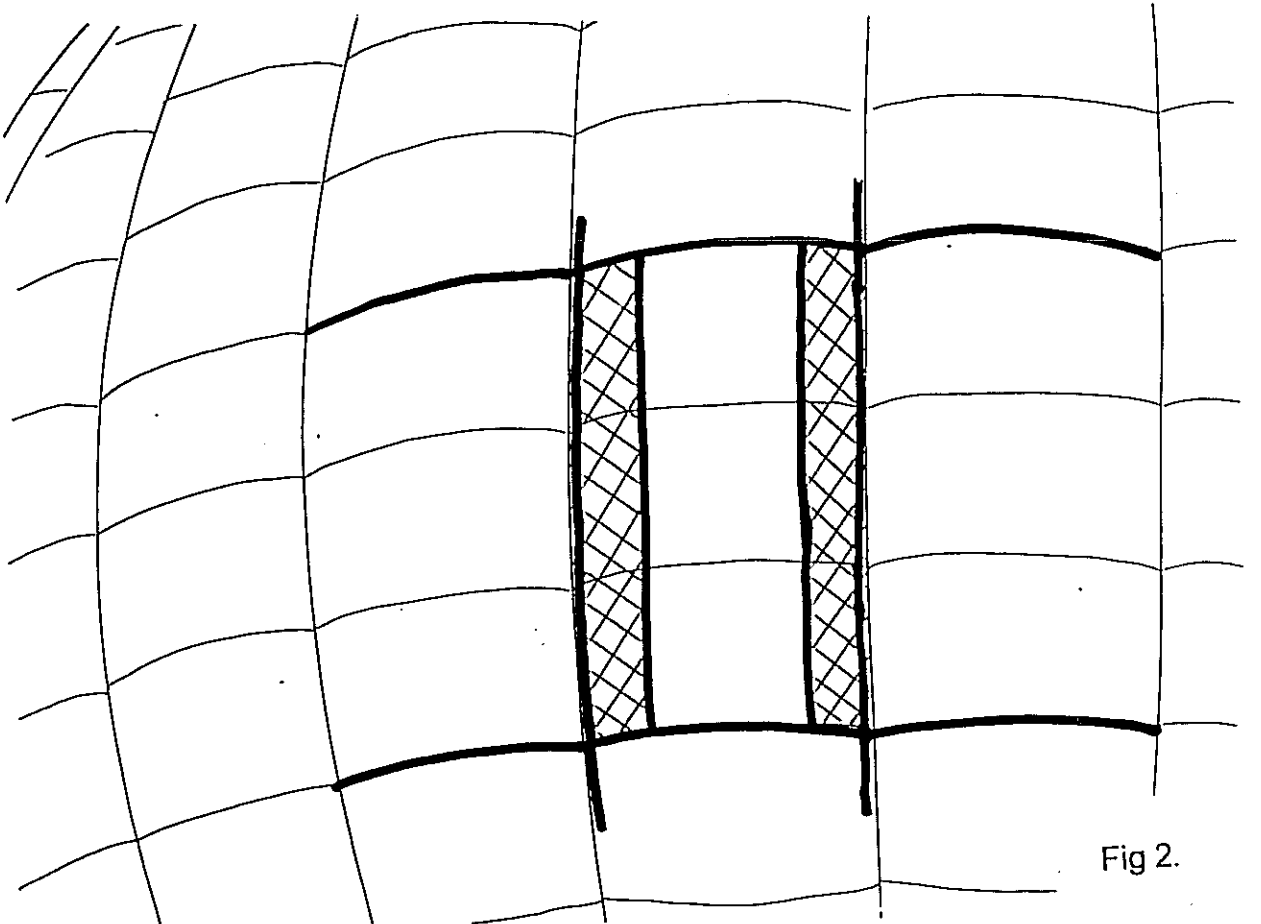


Fig 2.

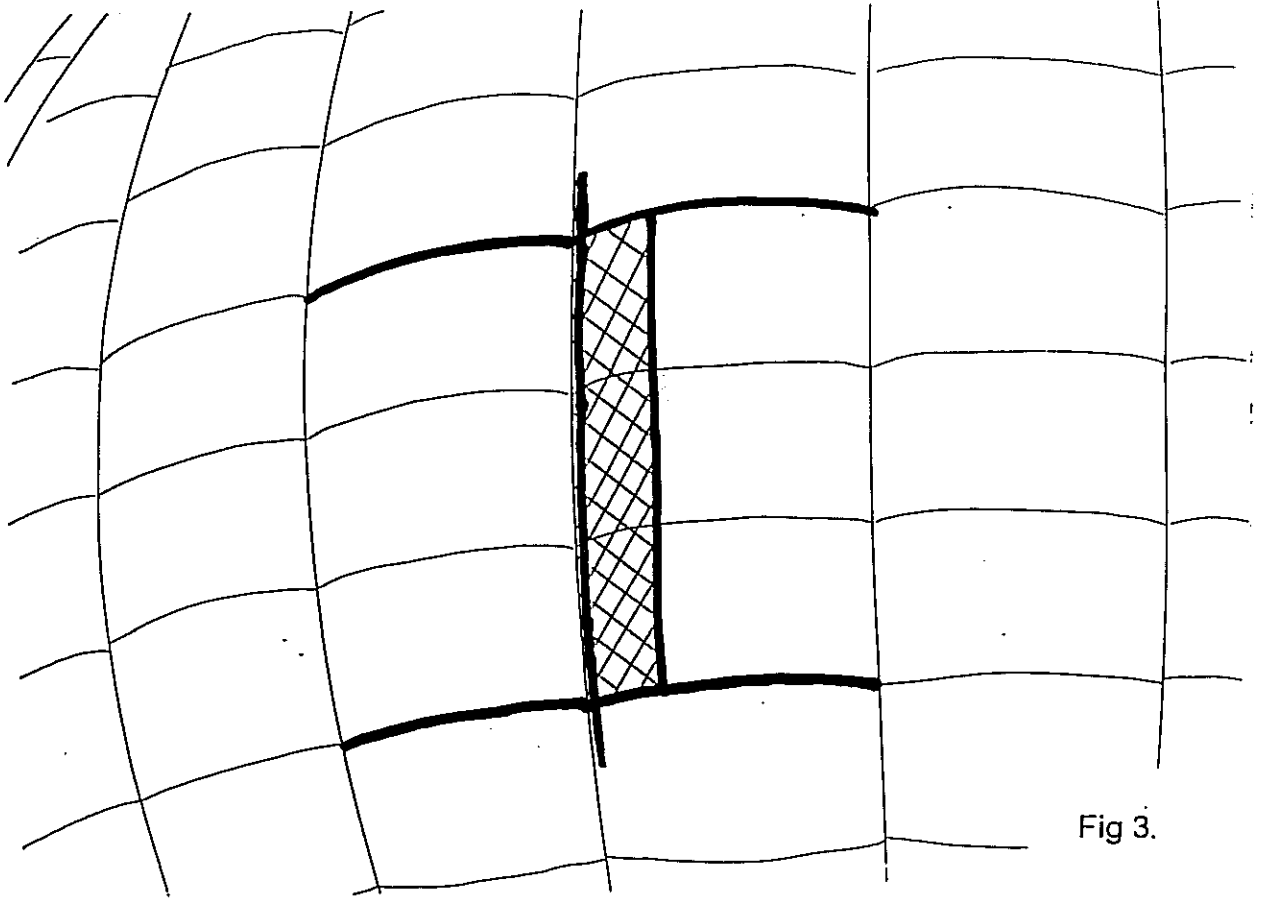


Fig 3.

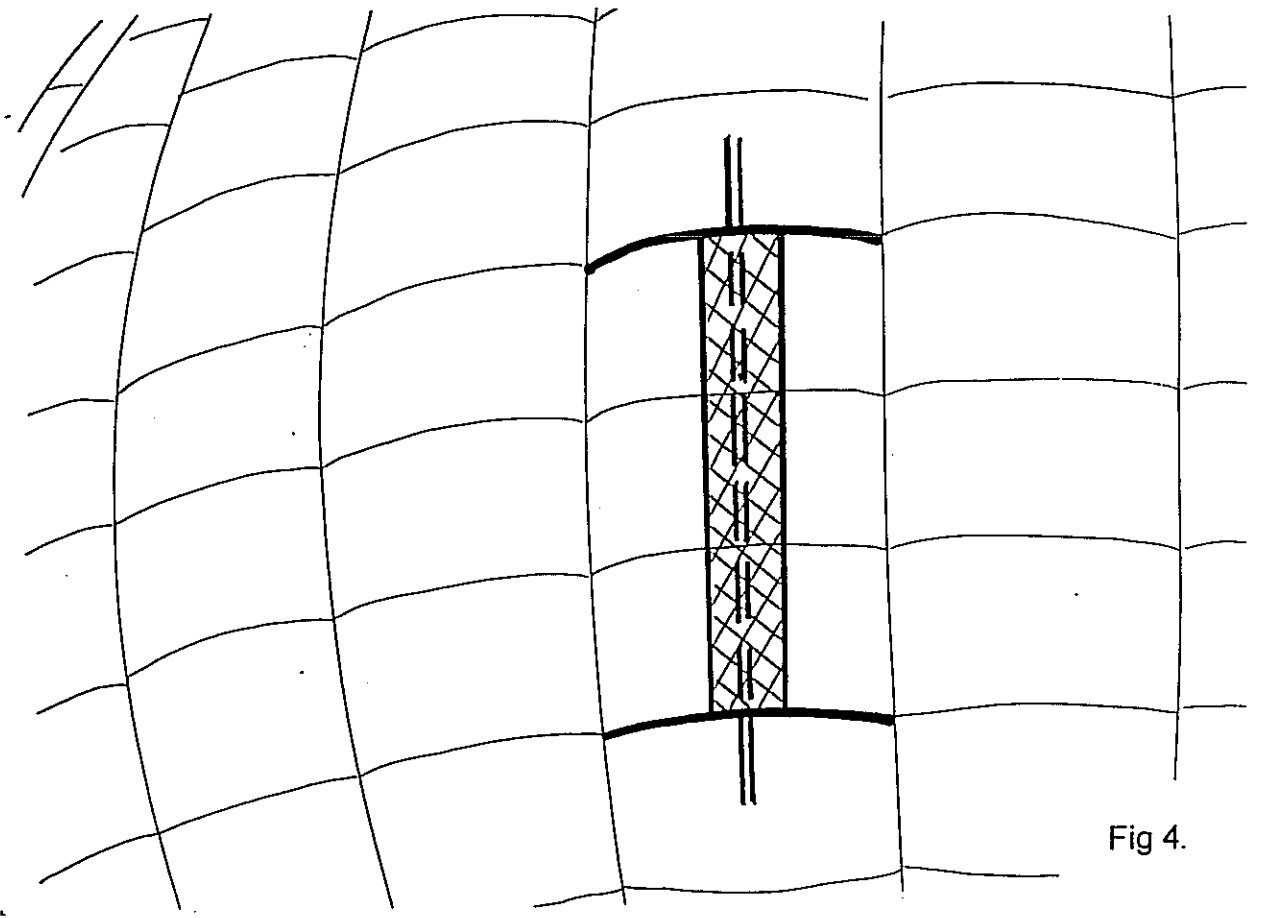


Fig 4.

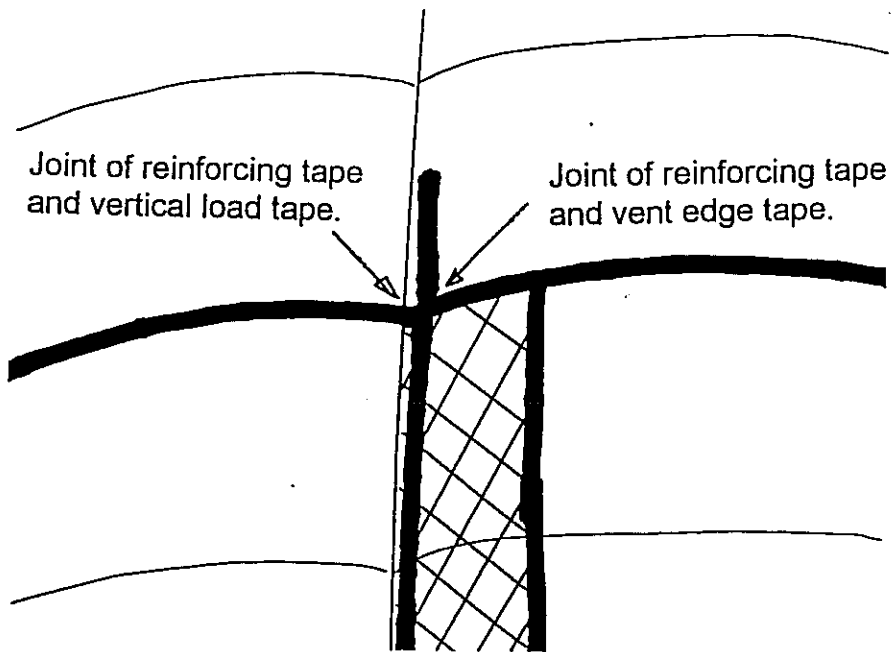


Fig 5. Positions of flag box or heavy zig-zag stitching.

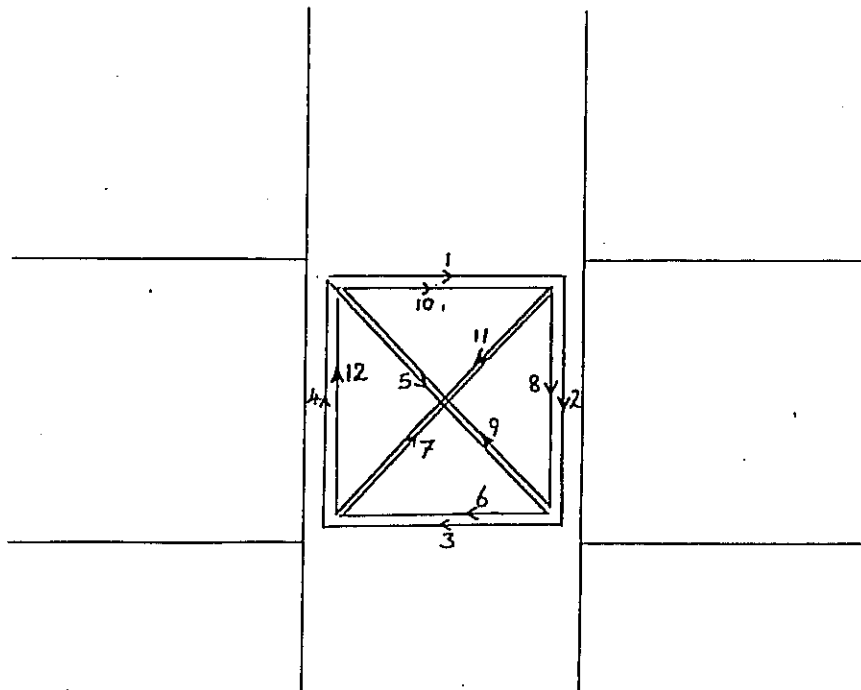


Fig 6. Flag Box. Sew with a single needle.