

PARACHUTE VECTORING

Partial canopy. Cylinder on top like a drawstring bag. Side vents walk it while it is still falling fast. Cinch the cylinder whenever you want, even on the last beat. No rush.

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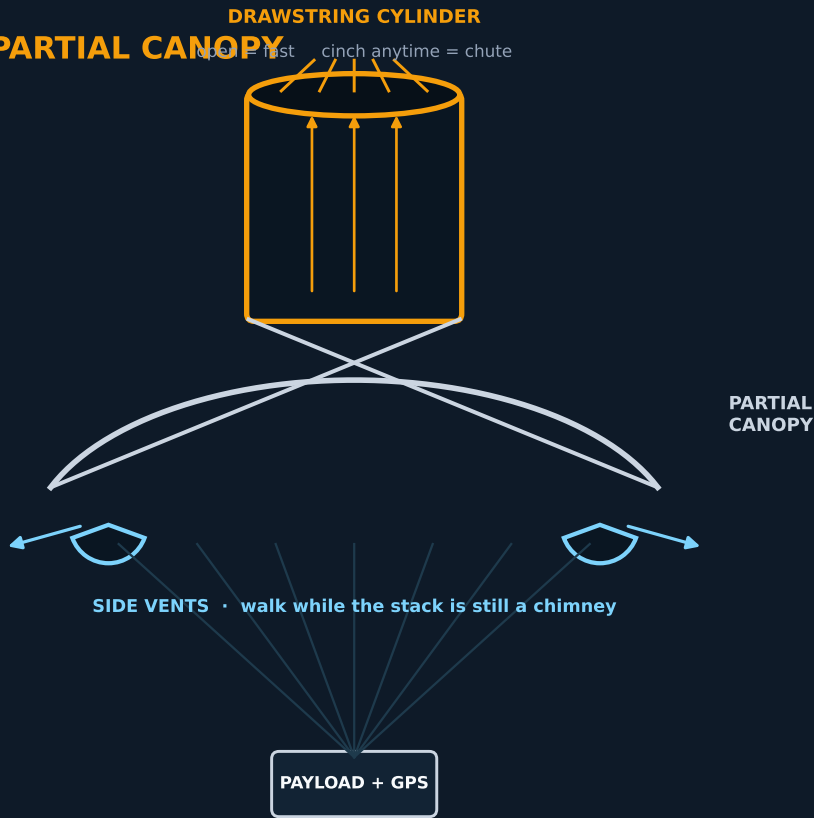
1 THE METHOD

A round chute that opens as a chimney, then becomes a parachute. The top is a cylinder, like a drawstring bag stood on end. Under it sits a partial canopy. Air goes up the stack. Descent stays fast. Side vents on the canopy dump left or right. It walks while it is still coming down hard. That is the point.

Close the cylinder at any time. Early, mid, or right before landing. There is no rush. Drawstring. Servo. Same motion as cinching a bag. When it shuts, the stack is a canopy. Drag comes on when you want it. Opening shock is already spent. You did not slam a closed dome.

Not ram-air strings. Not the 2013 three-arm spider. That is overkill. Provisional 61/888,321, 8 Oct 2013, George Christian Noll. Public: eastcoastcad.com/pat/pv.pdf Why unsolicited: no open NSPIRES call for a drawstring-cylinder round canopy. CPAS is GFE ringsail, not a public NOFO.

2 CYLINDER OVER A PARTIAL CANOPY



3 THE WORK (12 MONTHS)

He builds it if NASA funds it. Scale article. Drops. Open data.

Months 1-3 Partial canopy + fabric cylinder. Drawstring or iris on a servo at the mouth. Two or three skirt vents on servos. GPS/IMU on the payload.

Months 4-8 Tether then altitude. Walk rate vs vent duty with the cylinder OPEN (fast). Inflation loads with the stack as a chimney. Then cinch at 200 ft, 50 ft, and 10 ft.

Months 9-12 Closed-loop to a painted target at speed, then cinch late. Prove there is no rush. Data package to NASA. No China. Public summary has no ITAR drawings.

Requested: one-year grant, \$95,000. In-kind PI time, shop, CAD. Facility: Bel Air, Maryland. No government facility. SAM/UEI live before NSPIRES. Submit FY27 (after 1 Oct 2026).

4 WHY THIS LANDS

Crew and cargo still come down under round cloth. Parafoils steer. Round chutes mostly do not, unless you reef and pray. A chimney you can walk, then shut, gives direction at speed and drag on command. Close it on the last beat if the target is already under you.

PI: George C. Noll. High tech first (Communication Solutions / Rockwell Collins). Then the shop-drawing room. He put the brains in the parachute while they were still pulling strings.

This sheet is the brief NASA asks for. Most unsolicited proposals are declined. If this one is, it hangs on the wall anyway. If it is selected, the work is the drops. Not a license sale. Not SpaceX. The provisional is expired. This is a grant to build.