Supporting Information

Deegan 10.1073/pnas.1119737109

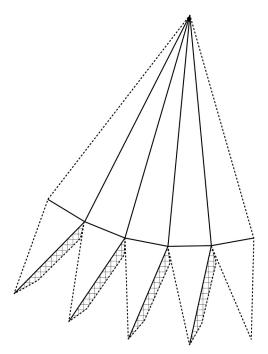


Fig. S1. Paper model for illustrating coupling between valves shown in Fig. S2. Cut along dotted line, crease solid lines, and glue hatched flaps to neighboring triangle.



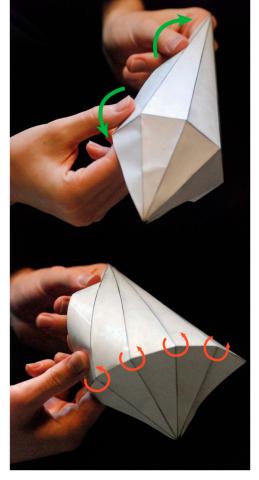
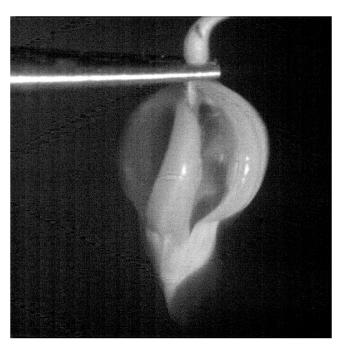


Fig. S2. Attempting to bend a single valve, which mimics the relaxation of a single valve to its naturally curved state, causes the other valves to rotate about the seams between valves. On the actual seed pod this torque caused the seams to crack.



Movie S1. Explosive release of seeds from Impatiens glandulifera filmed at 3,800 frames-per second.

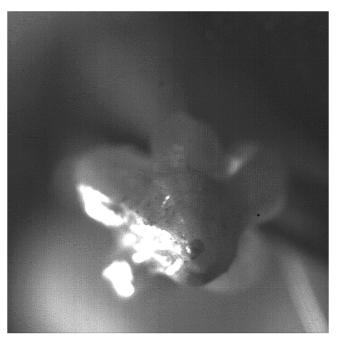
Movie S1 (WMV)





Movie 52. Creeping crack filmed at 3,100 frames-per second. The film shows a slow moving crack progating down the left seam. When it reaches about 50% of the seam length it initiates an explosive release of the seeds.

Movie S2 (AVI)



Movie S3. Exploding pod filmed from below at 3,800 frames-per second. Note that all the seams open within one frame (263 microseconds).

Movie S3 (WMV)