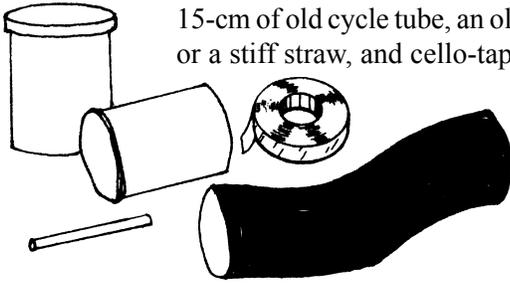


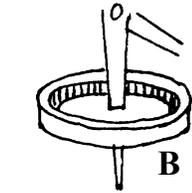
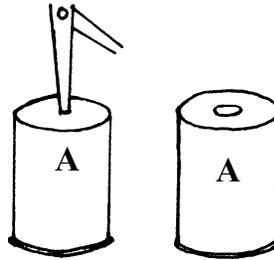
## BALLOON PUMP

With this simple pump you can actually inflate a balloon and make it POP!

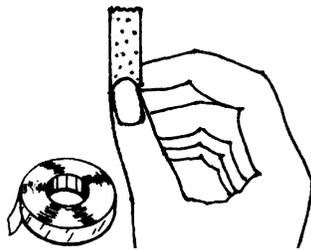
1. You will need two film-reel bottles, 15-cm of old cycle tube, an old refill or a stiff straw, and cello-tape.



2. Make a hole in the base of film-reel bottle **A** by using a divider point. Widen this hole by gently rotating the pointed end of a scissors. The hole should be about 1-cm in diameter and should not have any burrs.



3. Make a similar hole in cap **B**.



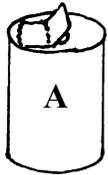
4. Take 3-cm of sticky tape. The dots show the 'sticky' side.



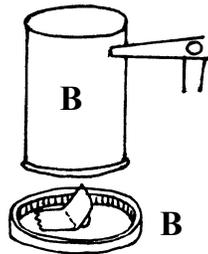
5. Fold 1-cm of the sticky part on itself. The lower 1-cm would still be sticky. Prepare two such tapes.



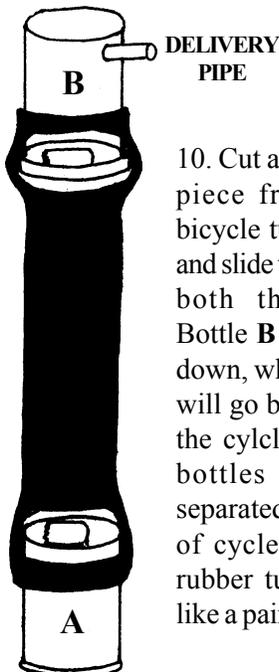
6. Stick the glue part of one tape to the cap. The tape will act like a hinge. It will open and close like a valve. This will be the **DELIVERY VALVE**.



7. Paste the other tape on the base of the film-reel bottle **A**. This will be the **SUCTION VALVE**.



8. Take another film-reel bottle **B** and make a small hole on its cylindrical surface. Press fit a short stiff straw in it for the delivery pipe. Fix the cap with the delivery valve (Fig 6) to bottle **B**.



10. Cut a 15-cm long piece from an old bicycle tube. Stretch and slide the tube over both the bottles. Bottle **B** will go lid-down, while bottle **A** will go bottom-up in the cycle tube. The bottles will be separated by 7-8 cm of cycle tube. This rubber tube will act like a pair of bellows.

11. Place a medium size balloon in the delivery pipe. Fix it to the pipe with a rubber band to prevent any air leak. Now hold the two bottles and quickly bring them closer and then take them apart. This repeated stretching and contracting of the tube like a bellows will inflate the balloon. You can "POP" a balloon with this simple pump.

