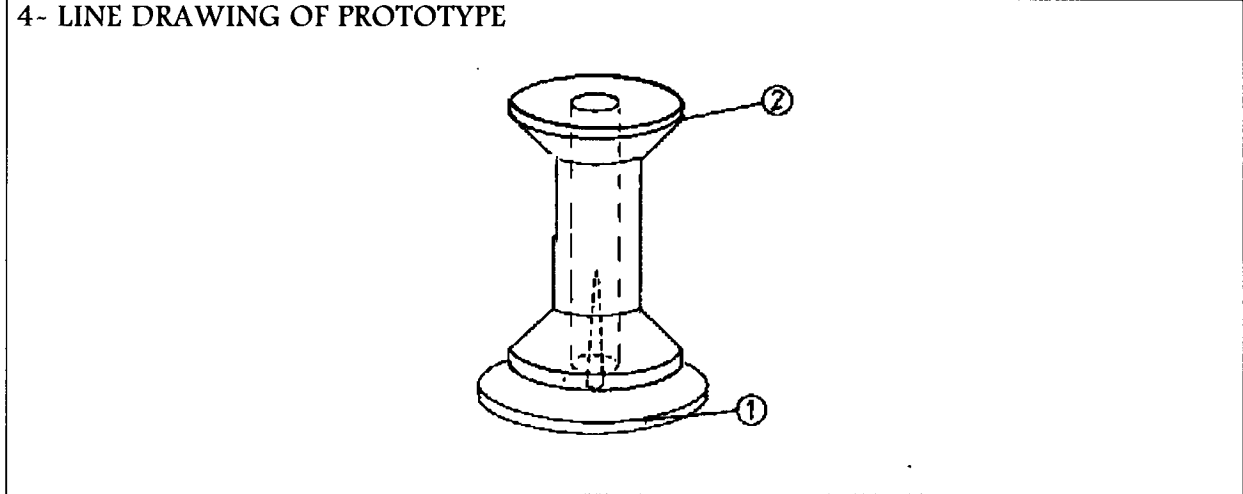


# AIR FLOW APPARATUS

<b>1- ITEM</b>	<b>AIR FLOW APPARATUS.</b>
<b>2.-PURPOSE</b>	To demonstrate that there is a relationship between pressure and the flow of air.
<b>3- INFORMATION SUBMITTED BY</b>	Beijing Teaching Aids Centre, Hengshui Prefecture, Hebei Province, China.



**5- MATERIALS FOR CONSTRUCTION**

Components	Qty	Materials Required	Dimensions
1. Disc	1	Stiff paper	To suit dia. of spool. as available
2. Spool	1	Cotton reel Pin. (large)	

Tools: Scissors

**6- CONSTRUCTION DETAILS**

**Fig 1.**  
Cut a disc of approximately 30mm dia, from a piece of stiff paper. Push a long pin through the centre of the disc (a pin used in optical experiments would be suitable).

**Fig. 2.**  
Arrange the apparatus as shown in Fig. 2

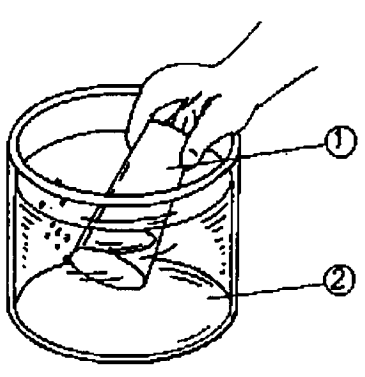
**7- METHOD OF USE**

Blow vertically down through the hole in the spool and at the same time lift the spool upwards. The paper disc will be seen to rise up with the spool. Stop blowing and the paper disc will fall down.

**8- COMMENTS**

Ensure that the paper disc is larger in diameter than the diameter of the bottom face of the spool.

## AIR PRESSURE APPARATUS

1- ITEM			
AIR PRESSURE APPARATUS.			
2.-PURPOSE			
To demonstrate that air exists and to show the effect of air pressure.			
3- INFORMATION SUBMITTED BY			
Beijing Teaching Aids Centre, Hengshui Prefecture, Hebei Province, China.			
4- LINE DRAWING OF PROTOTYPE			
			
5- MATERIALS FOR CONSTRUCTION			
Components	Qty	Materials Required	Dimensions
1. Air container	1	Glass tumbler.	As available
2. Water container	1	Glass trough. Paper.	As available
6- CONSTRUCTION DETAILS			
7- METHOD OF USE			
Place a wad of screwed up paper in the bottom of the glass tumbler. Fill the glass trough with water. Turn the tumbler upside down and push it into the water. Due to the air trapped in the glass the water will not wet the paper but will remain below it.			
8- COMMENTS			
Ensure that there is enough water in the trough to cover the glass tumbler. Insert the tumbler into the water in an almost vertical position to ensure that the maximum amount of air is trapped in the glass.			