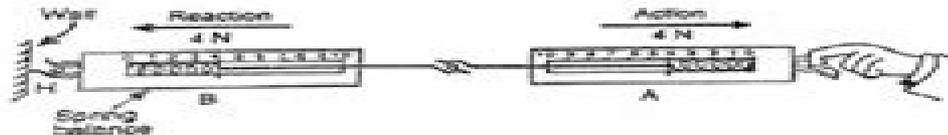


## NEWTON'S THIRD LAW OF MOTION

**AIM:** To study the Third Law of Motion using two spring balances.

**THEORY:** Newton's third law of motion, forces always act in equal but opposite pairs. Another way of saying this is for every action, there is an equal but opposite reaction. This means that when you push on a wall, the wall pushes back on you with a force equal in strength to the force you exerted.



### MATERIALS REQUIRED:

Two identical spring balances (0 – 5 N; 0 – 500 g), weight box, inextensible thread, a frictionless pulley (which can be fixed at the edge of the table), and a pan of known mass.

### PROCEDURE:

1. Find the range and the least count of the two spring balances.
2. Ensure that the two spring balances are identical.
3. Check whether the spring balances can measure the force? If the two spring balances have the graduation markings in terms of force units well. If not, that is the spring balances have graduation markings in terms of mass only, then learn to convert it in force units as explained in the Note for the Teacher.
4. Hold the two spring balances vertically and ensure that their pointers are at zero mark.
5. Arrange two spring balances A and B, a pulley and a pan with the help of an inextensible thread, as shown in Fig. The spring balance B must be attached to a rigid support. The spring balances may rest on the smooth table-top while the thread must not touch the table-top. The other end of the thread, which is attached with the pan, should also hang freely without touching the table.
6. What are the readings of the scales on the two spring balances? Are they equal? Is it approximately equal to the weight ( $w$ ) of the pan (mass of the pan ( $m$ )  $\times$  acceleration due to gravity ( $g$ ) at your place)?
7. Identify the action and reaction forces. The force which spring balance A exerts on B is action (reading on the scale of spring balance B). The reading on the scale of balance A shows the reaction that spring balance B exerts on A.
8. Put some mass  $M$  on the hanger (say 100 g). The total mass attached to the thread is now ( $M + m$ ). Observe the readings of both the balances.
9. Repeat step 8 for at least five more masses on the pan. Tabulate your observations.

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**E Durkheim**



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