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# A SEVENTH SIMPLE MACHINE?

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“..... in the beginning the Builder decreed six fundamental machines. These are His six aspects, and all we do we must do with the six. We need no other machines. I believe this with all my heart. I do. And yet sometimes I seem to intuit the existence of a seventh machine, hovering like a blasphemous ghost just beyond apprehension ....”

*Excerpt from Inclination, by William Shunn*

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In physics, a simple machine is a device that needs only a single Force to produce Work, and changes the direction of that single Force.

The most basic simple machines are:

- the lever,
- the pulley, and
- the inclined plane.

An additional three -- which are modifications of the first trio -- are:

- the wheel and axle,
- the wedge, and
- the screw

For these six simple machines, the Forces and direction of change for each are:

- |                  |   |               |
|------------------|---|---------------|
| • lever          | a push on one side of the fulcrum       | opposite      |
| • pulley         | a pull on one side of the rope          | opposite      |
| • inclined plane | a horizontal push up the ramp           | perpendicular |
| • wheel and axle | a vertical push on the wheel or axel    | opposite      |
| • wedge          | a push on the wide portion of the wedge | perpendicular |
| • screw          | a turn from the top                     | perpendicular |

As presented in this manual, the Spry patented concepts qualify as one of the most basic. With no more than additions to a pile of dry sand -- or any solid particulate able to flow -- the vertical Force of gravity is changed to horizontal; or perpendicular to the original Force. A passive pile becomes a particulate power.

A "particular" drum-roll please.....!

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