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(57) Abstract :

The present invention relates to a smart compact structural instrument use for measuring, drawing and displaying the dimension of line, angle, circle and triangle. A smart compact structural instrument for drawing line, angle, circle and triangle, comprise of the ruler, circular protector and a compass in which circular protector is connected at the one end of ruler in the other end the handle and the switch is connected. Plurality of capacitance sensor is connected to the ruler and the circular protector. The main unit which is comprises of a controller, a calculator, a battery, a capacitance sensor, a display, numeric keypad and a sketch holder. To draw/measure line, angle, circle and triangle the main part with the sketch holder moves along the ruler, from the center point to the end of the ruler. The plurality capacitance sensors present in the circular protector and in the ruler sense the dragging and the drawing of the shape of line, angle, circle and triangle and send to the sensor present in the main unit. The main unit receives the data and shows the dimension in the display. The user can enter dimension of shape before drawing the shape and can calculate the appropriate dimension of the shape using the calculator available in the main unit of the smart compact structural instrument.

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Abstract:

The present invention relates to a smart compact structural instrument use for measuring, drawing and displaying the dimension of line, angle, circle and triangle. A compact structural instrument for drawing line, angle, circle and triangle, comprise of the ruler, circular protector and a compass in which circular protector is connected one end of ruler in the other end the handle and the switch is connected. Plurality of capacitance sensor is connected to the ruler and the circular protector. The main unit comprises of a controller, a calculator, a battery, a capacitance sensor, a display, numeric keypad and a sketch holder. To draw/measure line, angle, circle and triangle with the sketch holder moves along the ruler, from the center point to the end of the ruler. The plurality capacitance sensors present in the circular protector sense the dragging and the drawing of the shape of line, angle, circle and triangle and send to the sensor present in the main unit. The main unit receives the data and dimension in the display. The user can enter dimension of shape before drawing the shape and can calculate the appropriate dimension of the shape using the calculator available in the main unit of the smart compact structural instrument.

Complete Specification

Claims: We Claim:

1. A smart compact structural instrument 100 for drawing line, angle, circle and triangle, comprising :
A ruler 113, a circular protector 101 and a compass; wherein said circular protector 101 is connected at the one end of said ruler 113 and a plurality of capacitance sensors 112/108 is connected to the said ruler 113 and the said circular protector 101; and
A main unit 109; wherein said main unit 109 comprises a controller, a calculator, a battery, a capacitance sensor, a display 104, numeric keypad 110 and a sketch holder 102.
2. The smart compact structural instrument 100 according to claim 1, wherein said main unit 109 is placed on the said ruler 113.
3. The smart compact structural instrument 100 according to claim 1, wherein said circular protector 101 is connected to said ruler 113 and said ruler 113 rotates by a pin holder 111 to draw measuring circle or angle.
4. The smart compact structural instrument 100 according to claim 1, wherein said ruler 113 is equipped with a handle 106 to rotate the said ruler 113 and said circular protector 101 for drawing and measuring circle and angle.

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