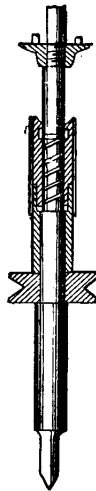


Spindle.

4. (*Spinning.*) *a.* A skewer or an axis upon which a bobbin is placed to wind the yarn as it is spun.

The kinds, of which there are many varieties, are the —

Fig. 5398.



Live spindle, in which the bobbin is fast on the spindle, and rotates with it.

Dead spindle. A skewer, not movable, on which a bobbin revolves to wind the yarn. The *drag* of the bobbin depends upon its tightness on the spindle, and is adapted to the degree of twist required.

Ring-spindle, one which has a traveling ring upon it. See RING AND TRAVELER.

b. The distaff and spindle — the oldest known form of spinning-machinery, if such it can be called — were familiar to Egyptians, Phœnicians, Hebrews, Arabians, and Hindus, in the time of Abraham, and also to the Greeks in the time of Homer.

In Fig. 5398, the helical oil-elevating groove is cut in the spindle, and ends above in an annular groove in the latter and a coincident groove in the bolster.

c. A measure of length. A spindle of 18 *hanks* of cotton yarn is 15,120 yards. A spindle of 24 *heers* of linen yarn is 14,400 yards.

5. (*Weaving.*) The skewer in a shuttle on which a bobbin or cop of yarn or thread is impaled.

6. The stem of a door-knob, which actuates the latch.

Spinning-
Spindle.