

# RAPPARD & COMPANY

WOOD TURNERS & SPINNING WHEEL MANUFACTURERS

## DOUBLE SNARE AND SCOTCH TENSION

The spinning wheel in operation does two things simultaneously:

1. It puts twist into the fibres being spun.
2. It draws the spun yarn onto the bobbin.

The twist is spun into the fibres by the rotation of the flyer. The yarn is drawn onto the bobbin, by the bobbin and the flyer rotating at slightly different speeds. Which rotates faster, determines only which direction the yarn is wound on.

**DOUBLE SNARE** and **SCOTCH TENSION** are alternative systems for driving the bobbin and flyer at different speeds.

The **DOUBLE SNARE** method uses a double driving band or different diameter grooves on the bobbin and the flyer drive (the whorl). This method is the older.

The **SCOTCH TENSION** is a brake operating on the bobbin on your Rappard Wheel. Only the flyer whorl is driven by the driving band. The yarn passing over the flyer onto the bobbin tends to draw them around at the same speed, but the Scotch Tension **BRAKES** the bobbin slightly.

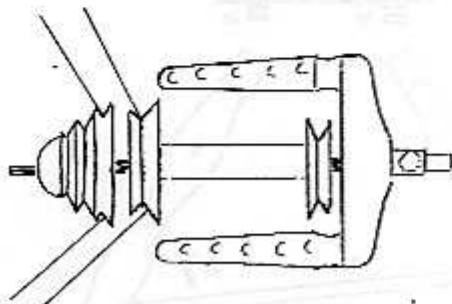
Each has its particular advantage. The Scotch Tension makes treadling a little heavier, but it gives a variable drive ratio, making it adaptable to different fibres, and different purposes. (e.g., plying).

### ALL RAPPARD WHEELS WORK BY EITHER METHOD.

The **WHORL** on your Rappard Wheel has three grooves. Normally the **LARGER** is used for spinning with the Scotch Tension, as well as the Double Snare method, and the **SMALLER** is used as a higher gear with the Scotch Tension in plying. The Smallest groove can be used for high speed plying if necessary, and the driving band can be twisted for reverse direction.

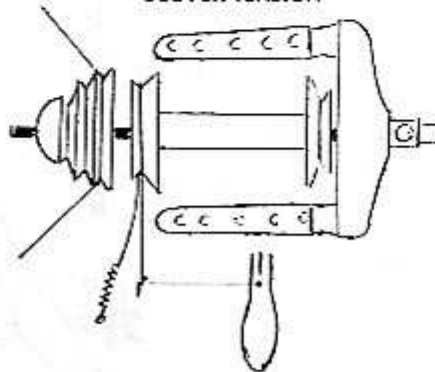
The **BOBBIN** has two different size grooves. Normally the **LARGER** is used for spinning with the Scotch Tension as well as the Double Snare method. Only the **SMALLER** groove is used with the Double Snare method, and is very useful for plying.

### DOUBLE SNARE METHOD



One loop over the whorl, the other loop over the bobbin groove.

### SCOTCH TENSION



Double driving band used as a single band over one groove of the Whorl. Tension band from spring over bobbin groove to tension knob.

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