

# WILSON BROTHERS, LIMITED,

CORNHOLME MILLS, TODMORDEN, ENGLAND.

## RABBETH RING BOBBINS FOR TWIST & WEFT.

**R**ING Spinners are well aware of the disadvantages and loss resulting from the use of ill-fitting and badly balanced bobbins. In response to many inquiries from Machinists and Spinners, for a better and more reliable ring bobbin than had hitherto been supplied, we decided to establish a separate department, devoted entirely to the manufacture of this class of bobbin. This department has been working most satisfactorily for several years, during which time it has been found necessary to enlarge again and again to meet the growing demand, and we are constantly on the alert adding to our plant every improvement that skill and capital can secure. Only recently we have erected a new and important addition to our plant which enables us to make bobbins steam and damp proof. Ring Spinners can now condition yarn on the bobbins without injuring them.

The accompanying drawings represent a few of the patterns most in demand among prominent Ring Spinners. They have been designed with a view to overcome some of the difficulties and objections raised against ring spinning.

Being the largest makers of ring spinning bobbins we are, necessarily, in touch with the principal firms of Machinists, Spindle Makers, and Spinners, and have thus exceptional facilities for ascertaining and embodying in our patterns the latest improvements and the results of a wide practical experience. We manufacture over twenty different styles, embracing every desirable pattern known.

The efficiency of a ring bobbin depends largely upon the timber from which it is made. We pay most careful attention to this point, importing the finest timber for the purpose. We have two years' stock always in our seasoning department, and no timber is used for these bobbins that has been seasoning for less than twelve months.

The perfect Rabbeth Ring Bobbin should never go tight on the spindle. The fit should be so accurate as to give a good grip on the spindle point and yet be easy to doff. So much importance is attached to this and true running, by makers of ring spinning machinery, that they are constantly warning Spinners of the evils resulting from ill-fitting and badly balanced bobbins.

The Patent Metal Protectors have become well known throughout every country, and their durability and effectiveness commend them to Spinners. The advantages will be at once evident on a comparison of the average pressure the various kinds are capable of resisting. The tests have been made by C. LANCASTER, Esq., Engineer, Market Street, Manchester. From this we ascertain that, while a plain bobbin will only resist an average pressure of  $57\frac{1}{2}$  lbs., the same kind of bobbin with our American pattern of shield will resist an average pressure of 230.31 lbs. Again, the plain beaded bobbin will bear only 96.6 lbs., whilst our pattern "C" will bear 411.38 lbs.



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WILSON BROS. PATENT 25714



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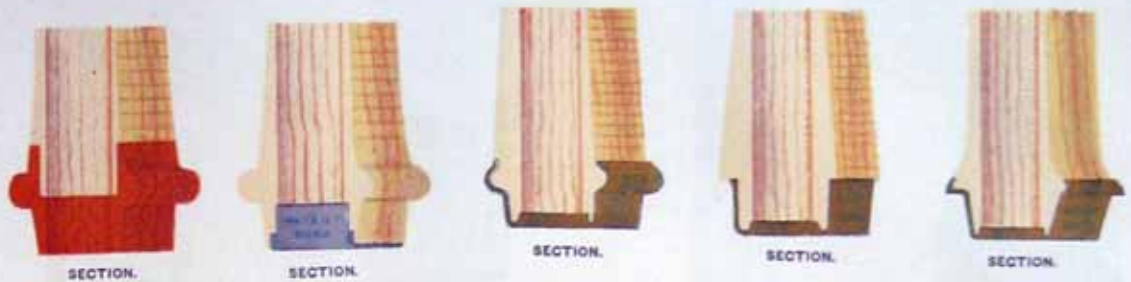


WILSON BROS. PATENT 25714


**WILSON BROS.' LIMITED, PATENT ENAMELLED BOBBINS**

BY A NEW PATENT PROCESS, WOOD BOBBINS ARE COMPLETELY COVERED, BOTH INSIDE AND OUTSIDE, WITH HARDENED ENAMEL THAT WILL NOT CRACK OR BECOME ADHESIVE. THEY EFFECTUALLY RESIST THE ACTION OF STEAM AND MOISTURE REQUIRED IN CONDITIONING YARN. IMPOSSIBLE TO WARP OR TWIST FROM REPEATED STEAMING. REFERENCES TO USERS IN GT. BRITAIN AMERICA, AND THE CONTINENT.





**IMPROVED RING TWIST BOBBINS, BEADED, CONICAL, AND COMBINED BEAD AND CONE,  
MADE BY MESSRS. WILSON BROS., LIMITED, CORNHOLME MILL, TODMORDEN,  
SHOWING THE APPLICATION OF THEIR PATENT STEEL AND BRASS SHIELD PROTECTORS.**

THESE BOBBINS POSSESS THE ADVANTAGE OF BEING AN AUXILIARY TO GOOD GAITING, AND IT IS ALSO CLAIMED THAT THEY PRODUCE A MORE REGULAR AND EVEN YARN. FIG. "C" THE UNION  REPRESENTS A NEW AND IMPROVED BOBBIN, WHICH CONTAINS ALL THE IMPORTANT FEATURES CLAIMED IN THE BEADED BOBBIN. FOR STRENGTH AND NEATNESS IT CANNOT BE EXCELLED. IT STANDS A TEST OF 411.33 LBS. WHILE THE SAME SOLID BEADED BOBBIN UNPROTECTED, IS ONLY 203.6 LBS. THOUSANDS ARE AT WORK IN EVERY COUNTRY GIVING ENTIRE SATISFACTION.

THE COMPRESSION TEST MADE BY MR. CHARLES LANCASTER, ENGINEER, IS AS FOLLOWS:—B 270 LBS., C 411.33 LBS., D 308.50 LBS., E 331.5 LBS., F 179.31 LBS. WHEN ORDERING, SPECIFY NUMBER, AND SEND COMPLETE SPINDLE FOR TESTING.



**RING TWIST BOBBINS MADE BY MESSRS. WILSON BROS., LIMITED,  
CORNHOLME MILL, TODMORDEN,  
SHOWING THE APPLICATION OF THEIR PATENT STEEL AND BRASS SHIELD PROTECTORS.**

THESE BOBBINS IN POINT OF APPEARANCE, DURABILITY, AND ECONOMY, AND FOR STEADY RUNNING REMAIN UNEQUALLED. FIG. 6 REPRESENTS THE AMERICAN PATTERN, A NEAT AND SUPERIOR BOBBIN. HAS A GREATER SALE BOTH IN ENGLAND AND AMERICA THAN ANY OTHER STYLE OF RABBETH BOBBIN. FIG. 7 THE CROWN RECENTLY INTRODUCED BY WILSON BROS., LTD., IS EQUALLY DURABLE AND IS NOW BEING ADOPTED BY MANY LARGE FIRMS. IT HOLDS MORE YARN, CONSEQUENTLY FEWER DOFFINGS. IT IS LIGHTER AND SPECIALLY ADAPTED TO LIGHT AND QUICK RUNNING SPINDLES. THE COMPRESSION TEST MADE BY MR. CHARLES LANCASTER, ENGINEER, IS AS FOLLOWS:—No. 2 155.46 lbs., No. 4 158.46 lbs., No. 5 230.31 lbs., No. 7 112 lbs. WHEN ORDERING PLEASE GIVE NUMBER AND SEND SPINDLE FOR TESTING.