

SPINNING REEL SPOOL AND LINE ECONOMIZER THEREFOR



ABSTRACT

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A spinning reel spool configuration for preventing backlash as well as line-drop of fishing line off the spool flange. The flange is configured such that height of the flange rim relative to the perimeter of the bobbin trunk is at least partially not uniform. Various configurations are possible thus to define a peak bobbin-to-rim height A and a minimum bobbin-to-rim height B. The periphery of the total amount of wound-on line lies at the minimum height B. Accordingly, the portion of the flange providing the difference A-B in bobbin-to-rim height functions as barrier to backlash. Furthermore, the spool is deformed from conventional configurations, such that the shape of the spool bobbin trunk differs in different sections. The bobbin trunk in sections containing the spool axis is an isosceles trapezoid, however, in one such section, the bobbin trunk tapers forward regularly, but in another such section tapers rearward in reverse. Furthermore, in front-end cross-section the bobbin trunk is an ellipse in one orientation, whereas in rear-end cross-section the bobbin trunk is an ellipse in an orientation reversed to that of the front-end section. The major and minor axes of the front- and rear-end ellipses are thus orthogonal. In the middle, the bobbin trunk is circular in cross section. Configuring the bobbin trunk thus to taper at once regularly and in reverse prevents both backlash and line-drop when the line is wound onto the spool.

(Fig. 4)



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