CLAIMS

1. Timepiece movement comprising a balance-and-hairspring regulator and an escapement co-operating with the regulator, the outer turn (5) of the hairspring comprising a stiffened portion (6'; 6"; 6"') arranged to make the development of the hairspring more concentric, characterised in that the stiffened portion (6'; 6"; 6"') is also arranged to produce a rate gain of at least 2 s/d at an amplitude of 150º with respect to an amplitude of 300º so as to at least partially compensate for the variation in the rate of the movement in dependence upon the oscillation amplitude of the balance caused by the escapement.

~~2. Timepiece movement as claimed in claim 1, characterised in that the stiffened portion (6'; 6"; 6"') is arranged to produce a rate gain of at least 2 s/d at an amplitude of 150º with respect to an amplitude of 300º, at least partially compensating for said rate variation caused by the escapement.~~

~~3~~2. Timepiece movement as claimed in claim ~~2~~1, characterised in that the stiffened portion (6'; 6"; 6"') is arranged to produce a rate gain of at least 4 s/d at an amplitude of 150º with respect to an amplitude of 300º, at least partially compensating for said rate variation caused by the escapement.

4~~3~~. Timepiece movement as claimed in claim ~~3~~2, characterised in that the stiffened portion (6'; 6"; 6"') is arranged to produce a rate gain of at least 6 s/d at an amplitude of 150º with respect to an amplitude of 300º, at least partially compensating for said rate variation caused by the escapement.

~~5~~4. Timepiece movement as claimed in claim ~~4~~3, characterised in that the stiffened portion (6'; 6"; 6"') is arranged to produce a rate gain of at least 8 s/d at an amplitude of 150º with respect to an amplitude of 300º, at least partially compensating for said rate variation caused by the escapement.

~~6~~5. Timepiece movement as claimed in any one of claims 1 to ~~5~~4, characterised in that the stiffened portion (6') is closer to the outer end (4) of the hairspring than a theoretical stiffened portion (6) which would have the same thickness (e) and the same extent (θ) as said stiffened portion (6') and which would make the development of the hairspring substantially perfectly concentric.

~~7~~6. Timepiece movement as claimed in any one of claims 1 to ~~6~~4, characterised in that the stiffened portion (6") is thinner than a theoretical stiffened portion (6) which would have the same position (α) and the same extent (θ) as said stiffened portion (6") and which would make the development of the hairspring substantially perfectly concentric.

~~8~~7. Timepiece movement as claimed in any one of claims 1 to ~~7~~4, characterised in that the stiffened portion (6"') is less extended than a theoretical stiffened portion (6) which would have the same position (α) and the same thickness (e) as said stiffened portion (6"') and which would make the development of the hairspring substantially perfectly concentric.

~~9. Timepiece movement as claimed in claim 6, characterised in that the thickness (e) and extent (θ) of the stiffened portion (6') are substantially identical to those of said theoretical stiffened portion (6).~~

~~10. Timepiece movement as claimed in claim 7, characterised in that the position (α) and extent (θ) of the stiffened portion (6") are substantially identical to those of said theoretical stiffened portion (6).~~

~~11. Timepiece movement as claimed in claim 8, characterised in that the position (α) and thickness (e) of the stiffened portion (6"') are substantially identical to those of said theoretical stiffened portion (6).~~