ELL301

25.01.2019

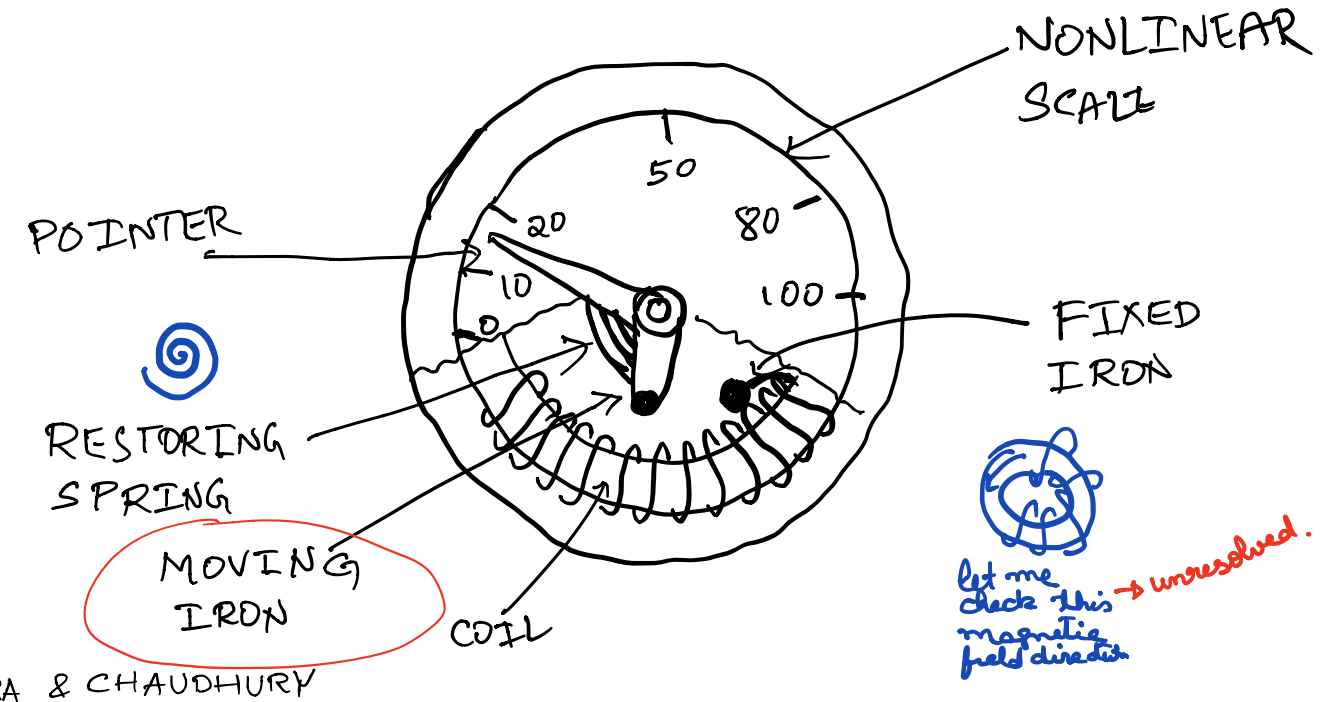

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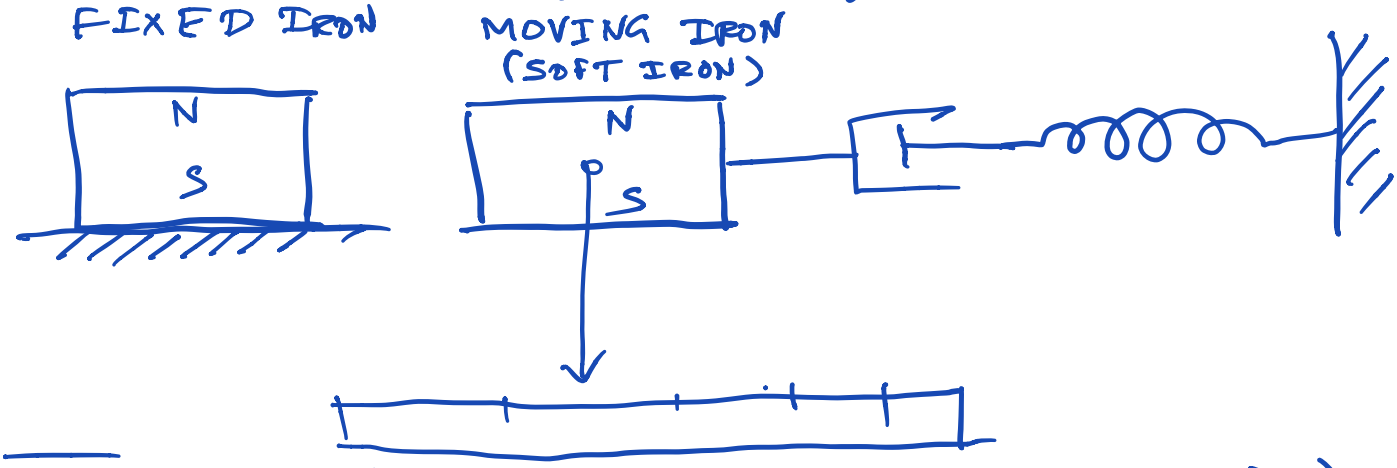
Fig 20.14 A typical moving iron instrument

This is a "repulsion type" moving iron

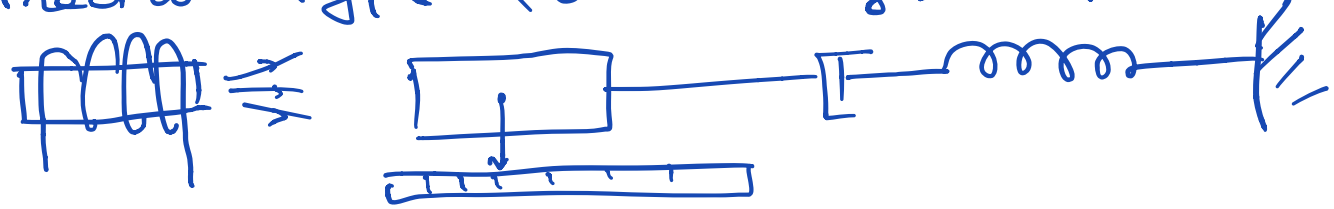
Both are designed to experience same magnetic field.

FIXED IRON

MOVING IRON (SOFT IRON)



"Attraction" type (one moving iron piece)



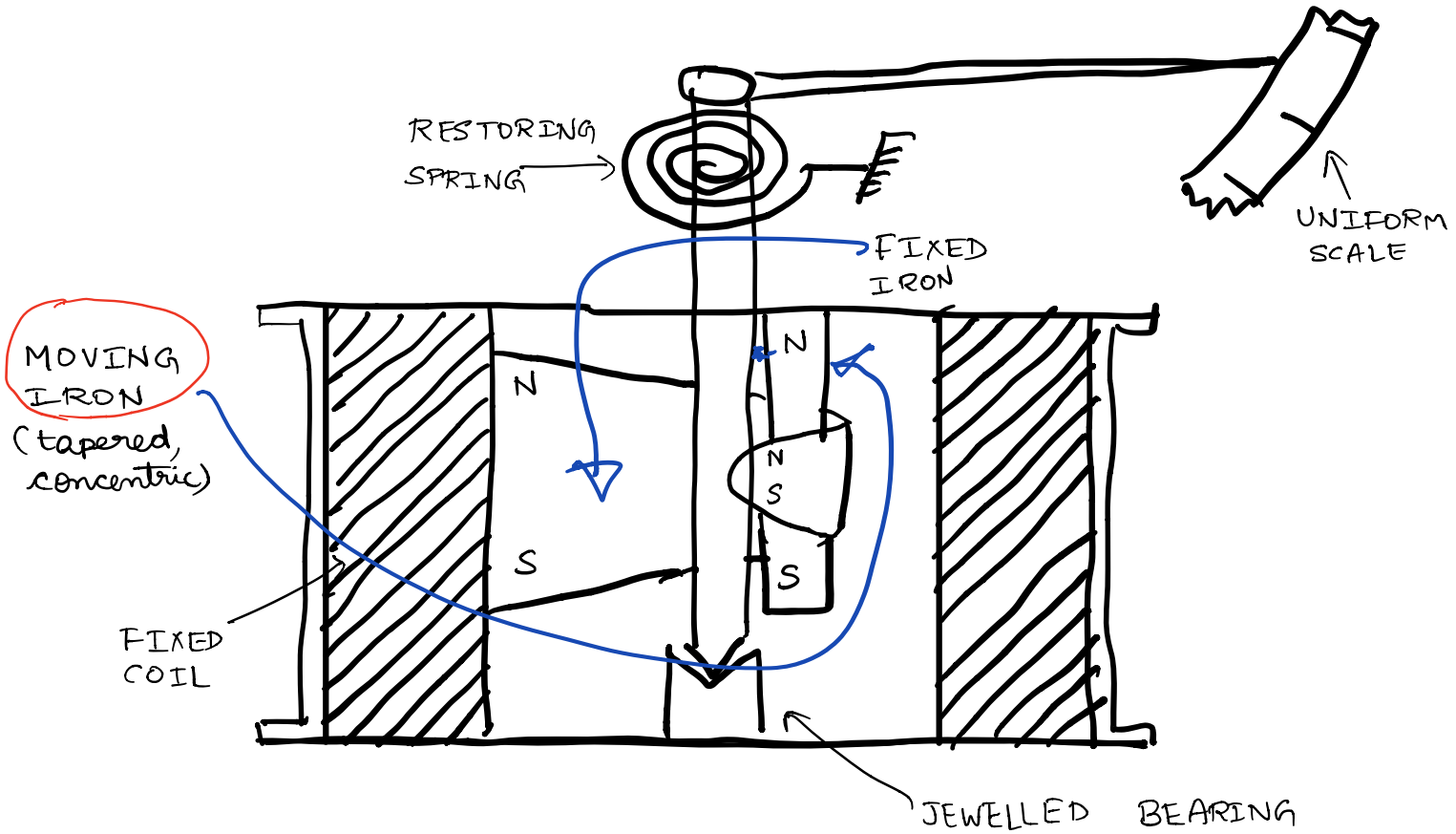


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Fig. 20.15 Concentric iron vanes in the moving iron instrument in the repulsion-type mode.

The concentric vane is shaped in a way that the square-dependence on the input current/voltage is cancelled out, giving rise to a linear uniform scale.

https://goo.gl/images/NU6S6r

Better image

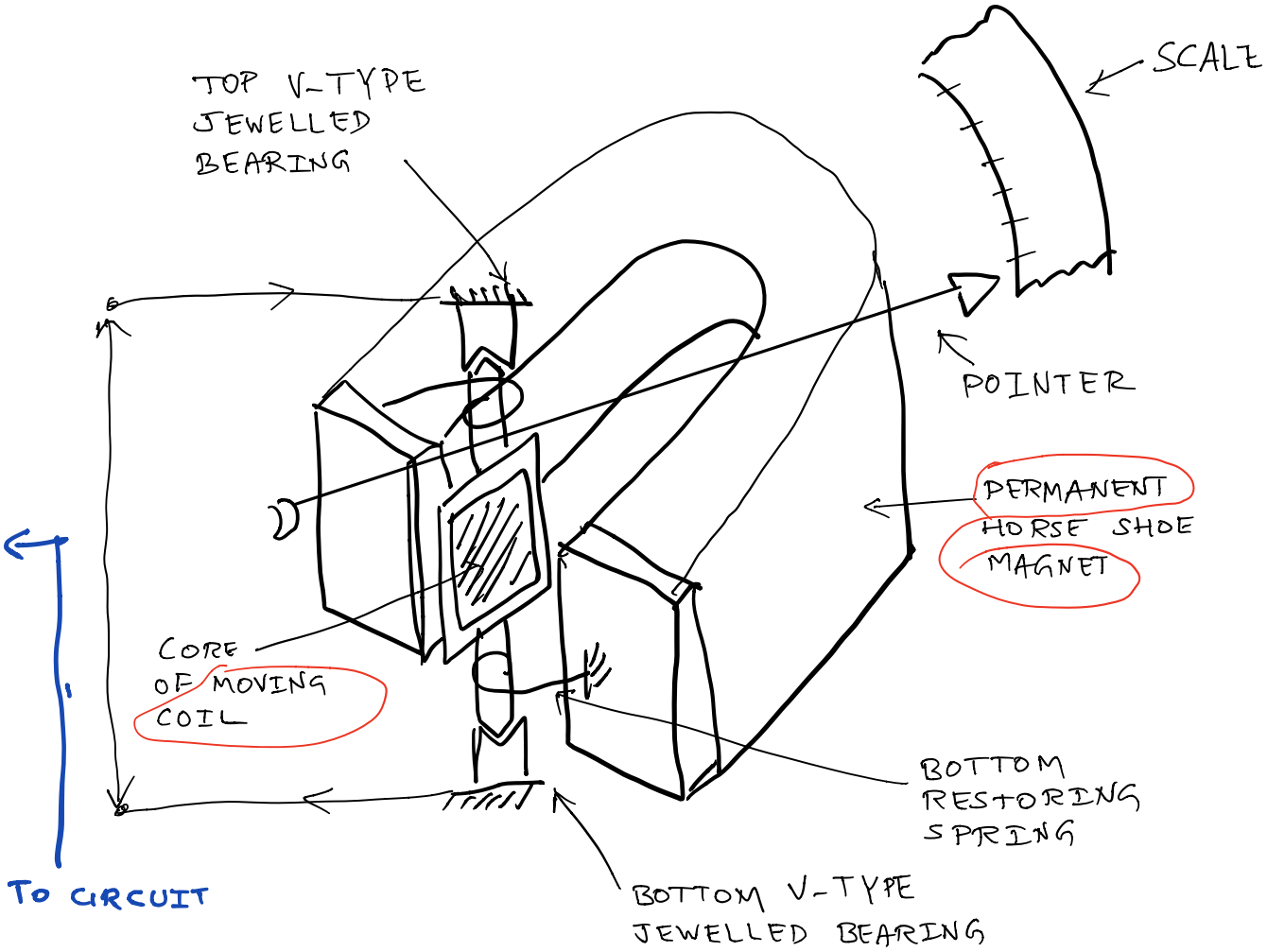

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FIG. 20.13 Permanent Magnet Moving Coil (PMMC) instrument

What is the "linearized" version diagram of this? Similar to the MI one ✓
But, what is the dependence of magnetic force on current/voltage being measured?