

Electric Secondary Clocks ("Slaves") - Picture Gallery

Horloges électriques secondaires - galerie d'images

Elektrische Nebenuhren - Bildergalerie

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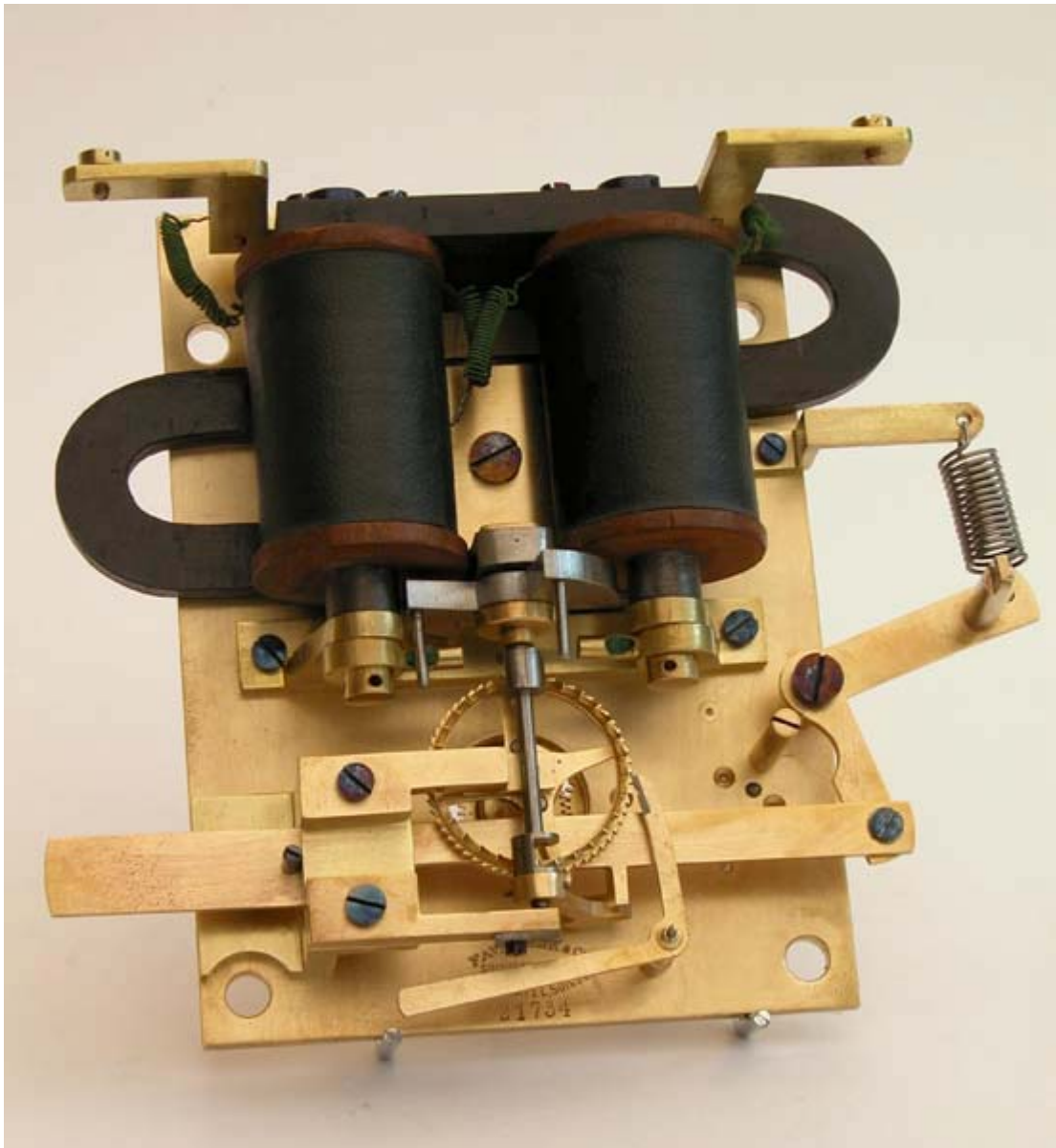
Liste: [Favag](#) [Favarger](#) [Hipp](#) [Inducta](#) [Magneta](#) [Moser-Baer](#) [Perret](#) [Peyer-Favarger](#)

Secondary clocks are not self-contained clocks, but slave instruments that receive the impulses given by a master clock, and add them to display minutes and hours on a dial. They could never give the time by themselves and numerous amateurs who did not know this have made quite bad deals on flea markets! They need a master clock, which generally give impulses every 1s (high precision clocks), 30s (typically in France and the UK) or 1 minute (Germany and Switzerland).

On appelle horloges secondaires ou réceptrices des instruments qui ne sont en fait pas des horloges, mais de simples compteurs d'impulsions, qu'ils additionnent sous forme de minutes et d'heures sur un cadran. Ces horloges ne sauraient donc donner l'heure par elles-mêmes et nombreux sont ceux qui se sont fait prendre sur un marché aux puces. Il leur faut une horloge-mère qui envoie des impulsions à intervalles réguliers, généralement de 1s (haute précision), 30s (France, UK par exemple) ou 1 minute (Allemagne, Suisse).

Nebenuhren sind keine selbständigen Uhren, sondern abhängige Instrumente, die Impulse von der Hauptuhr erhalten. Sie zählen diese, um Minuten und Stunden auf dem Zifferblatt

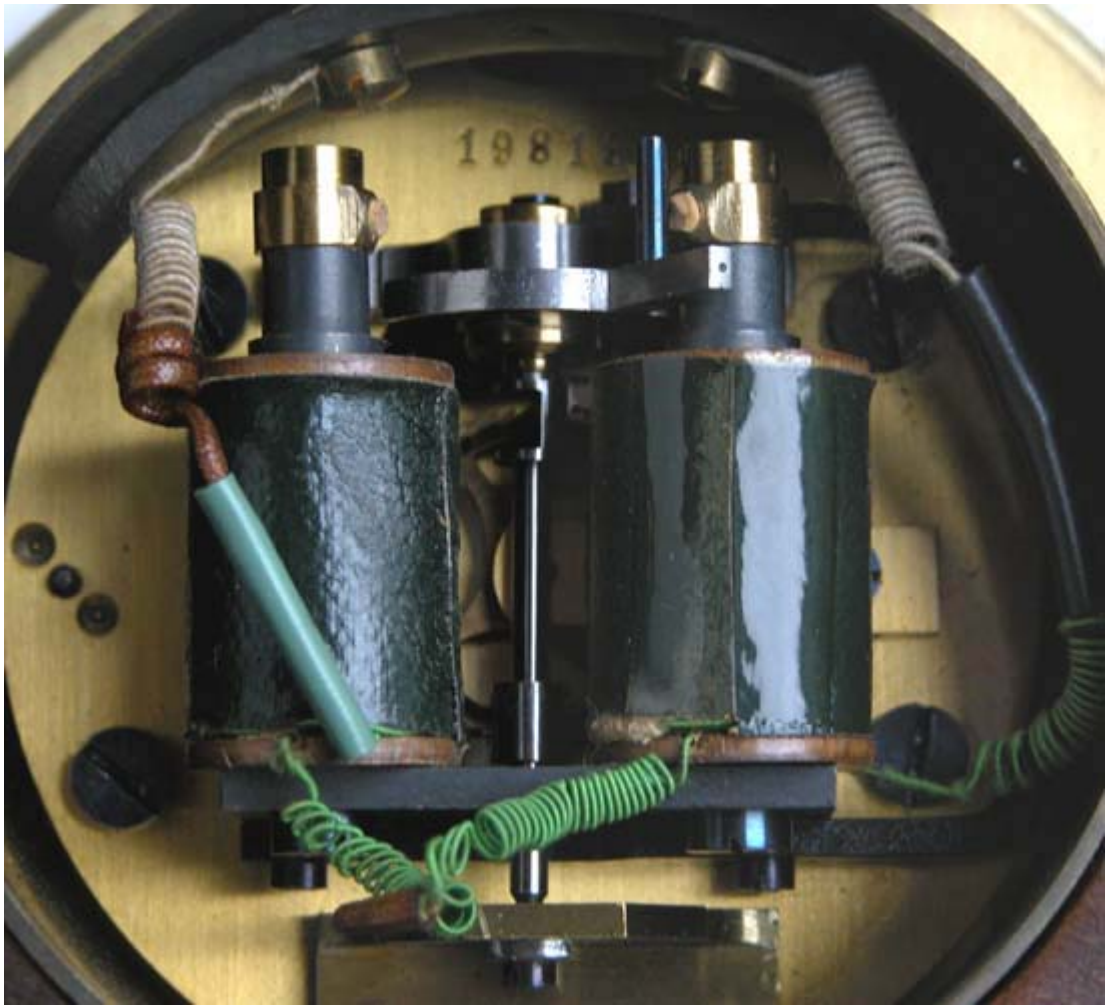
anzuzeigen. Sie könnten niemals alleine die Zeit angeben, und zahlreiche Amateure, die das nicht wussten, haben bereits schlechte Geschäfte auf Flohmärkten gemacht! Sie benötigen eine Hauptuhr, die im allgemeinen jede Sekunde einen Impuls gibt (hochpräzise Uhren), oder alle 30 s (typischerweise in Frankreich und Großbritannien) oder jede Minute (Deutschland und Schweiz).



Favarger type Hipp, ca 1910



Peyer & Favarger, ca 1900



Favarger bench-clock for seconds-impulses



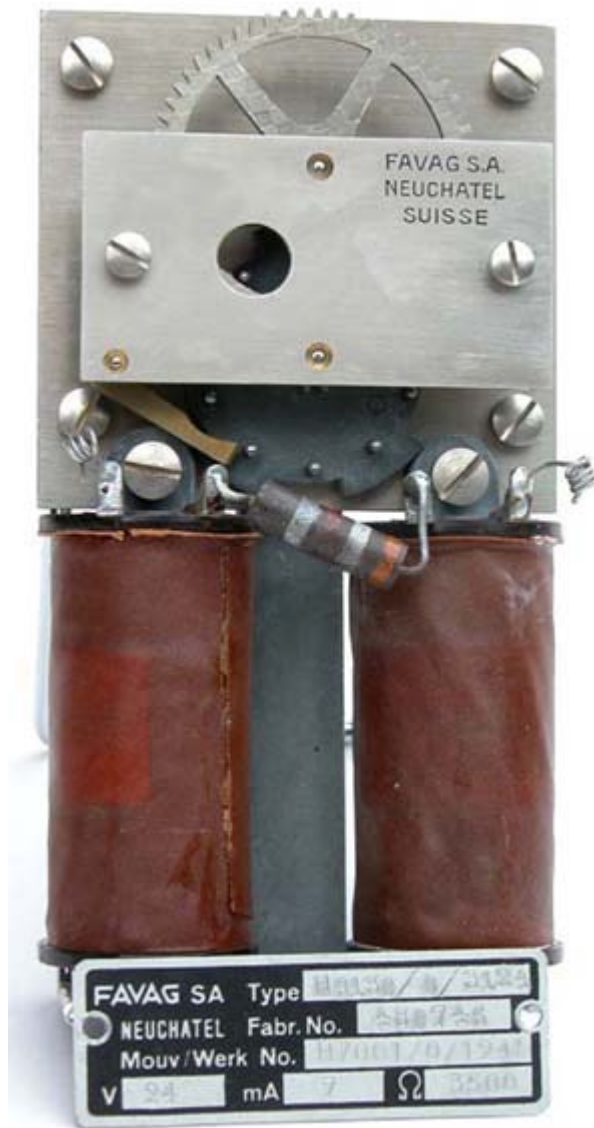
Favarger bench-clock for seconds-impulses, case



Favarger & Cie, ca 1910-20 (H=12cm)



Favarger (not signed) F2 (H=19cm) with lever for manual setting



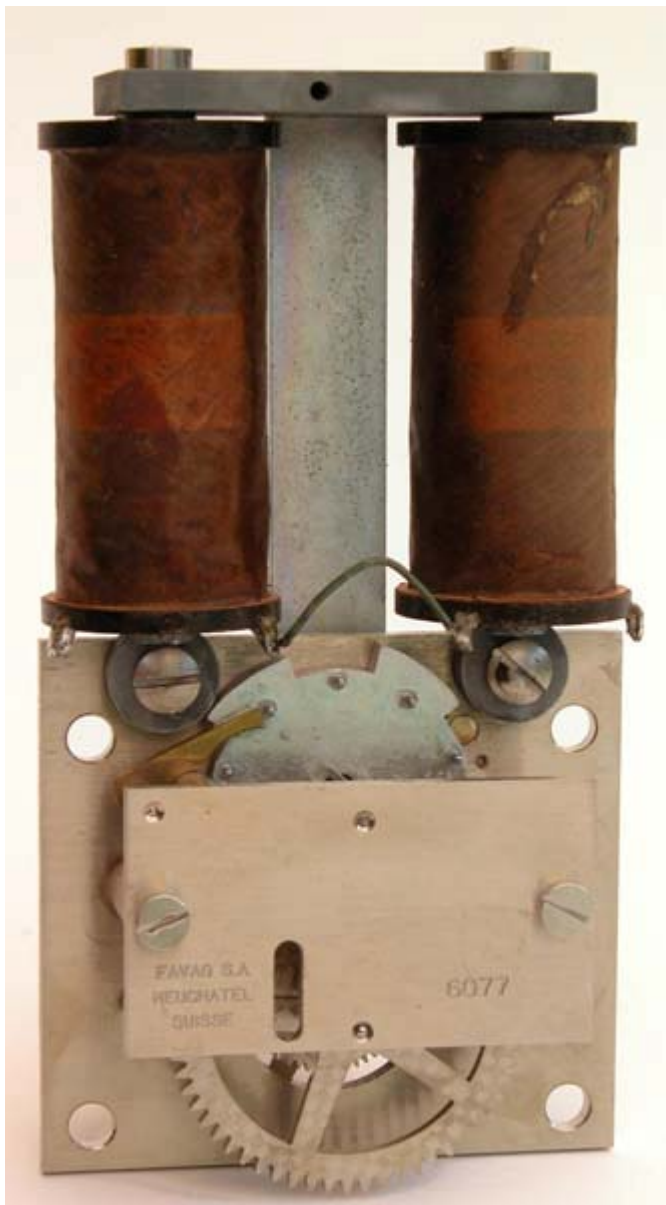
Favag 1948



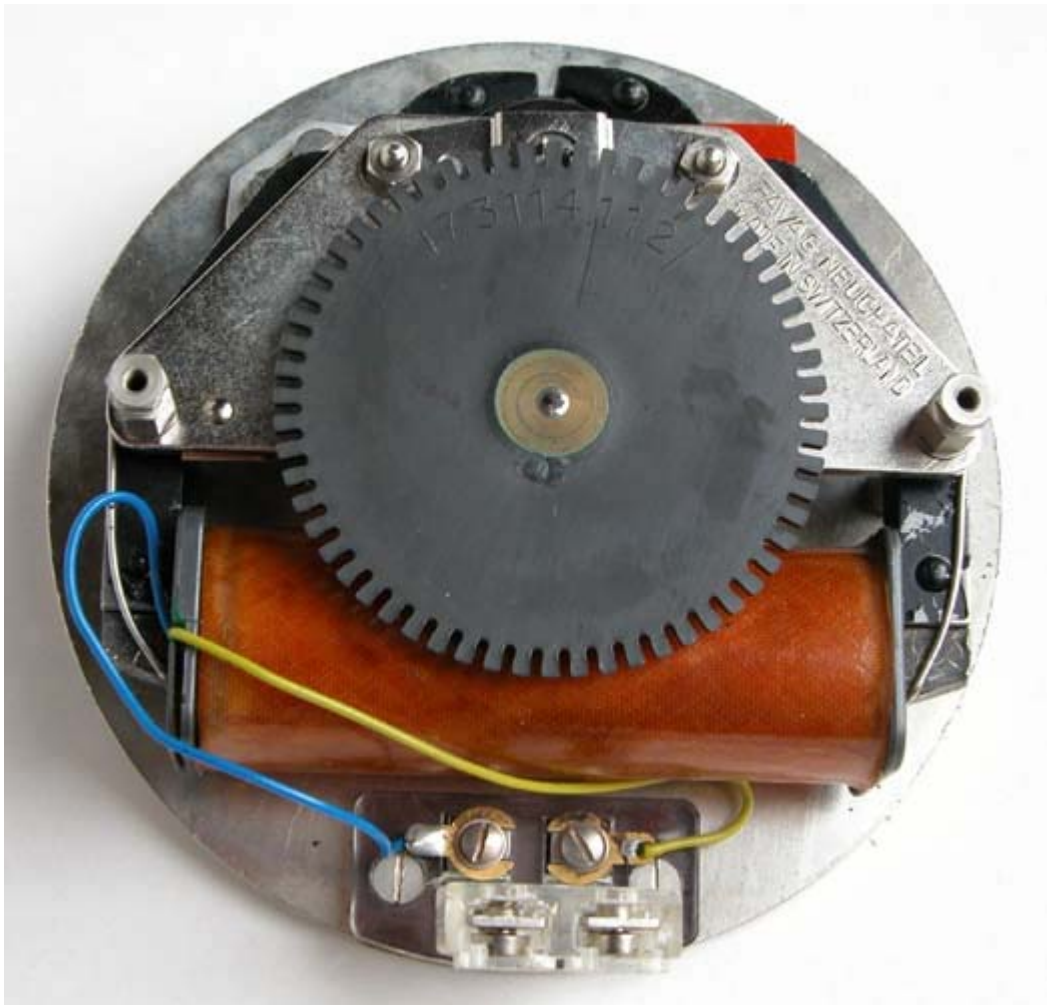
Favag 1960



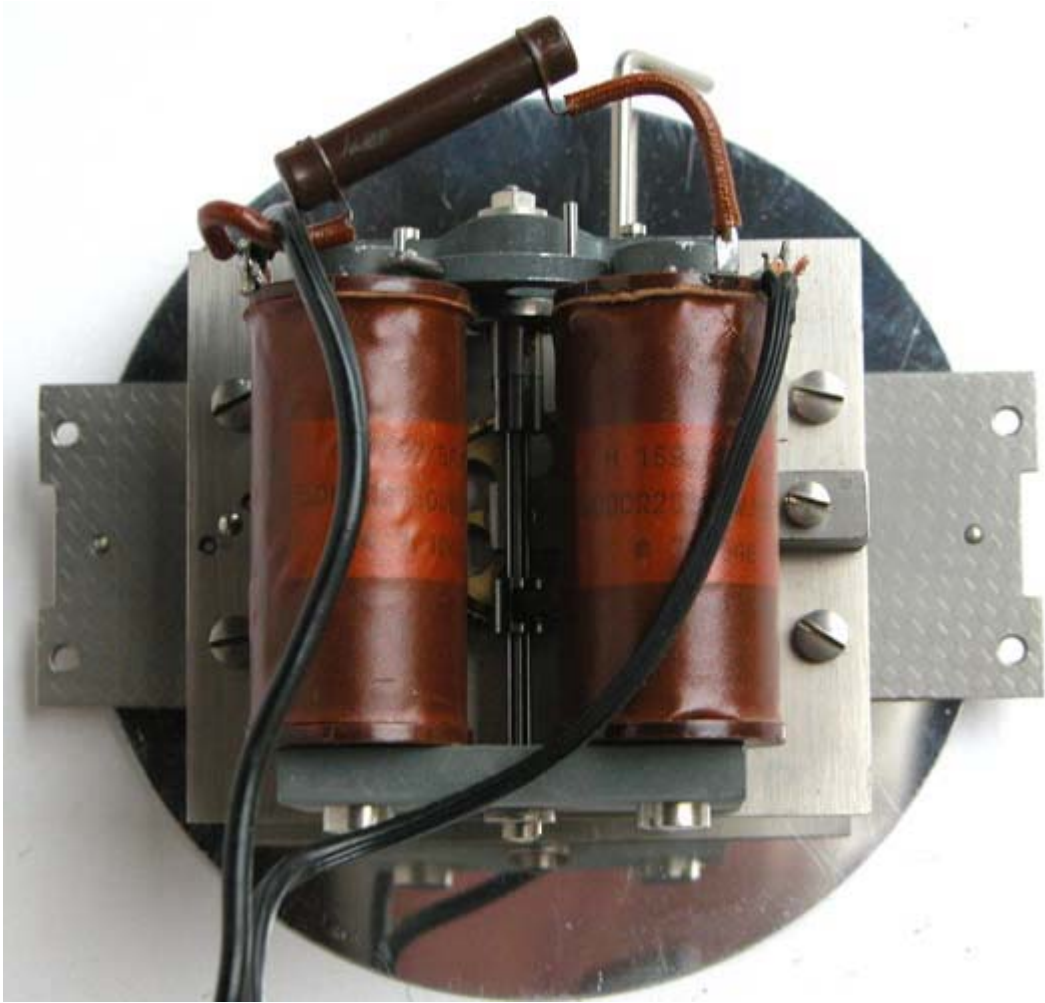
Favag NZ (Normal-Zeit)



Favag type F2 (H=17cm)



Favag, recent model



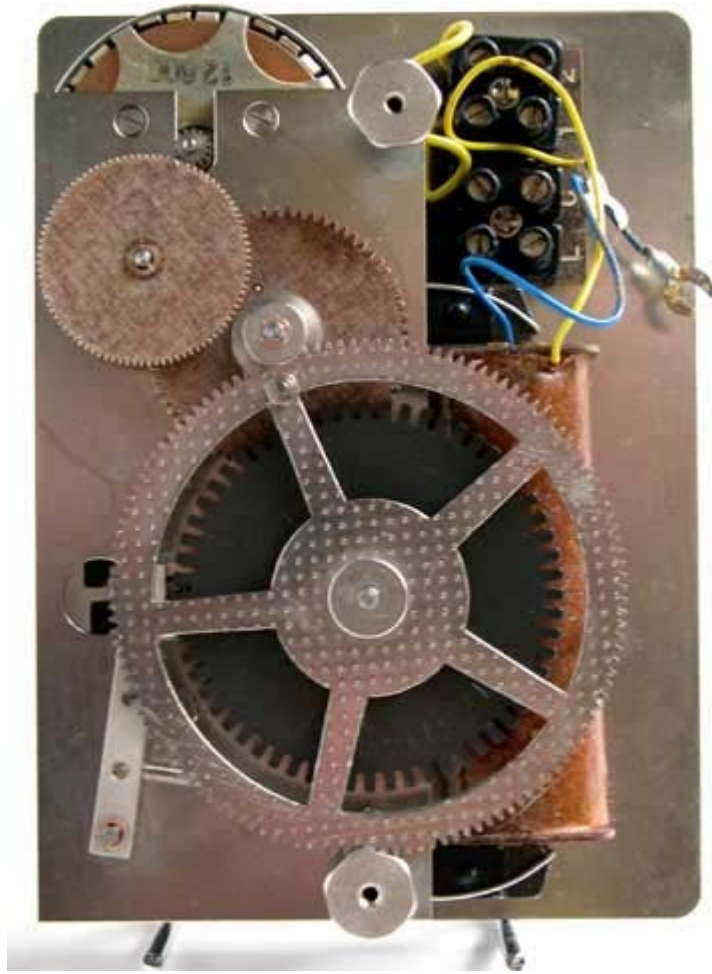
Favag bench-clock for seconds-impulses, 1946



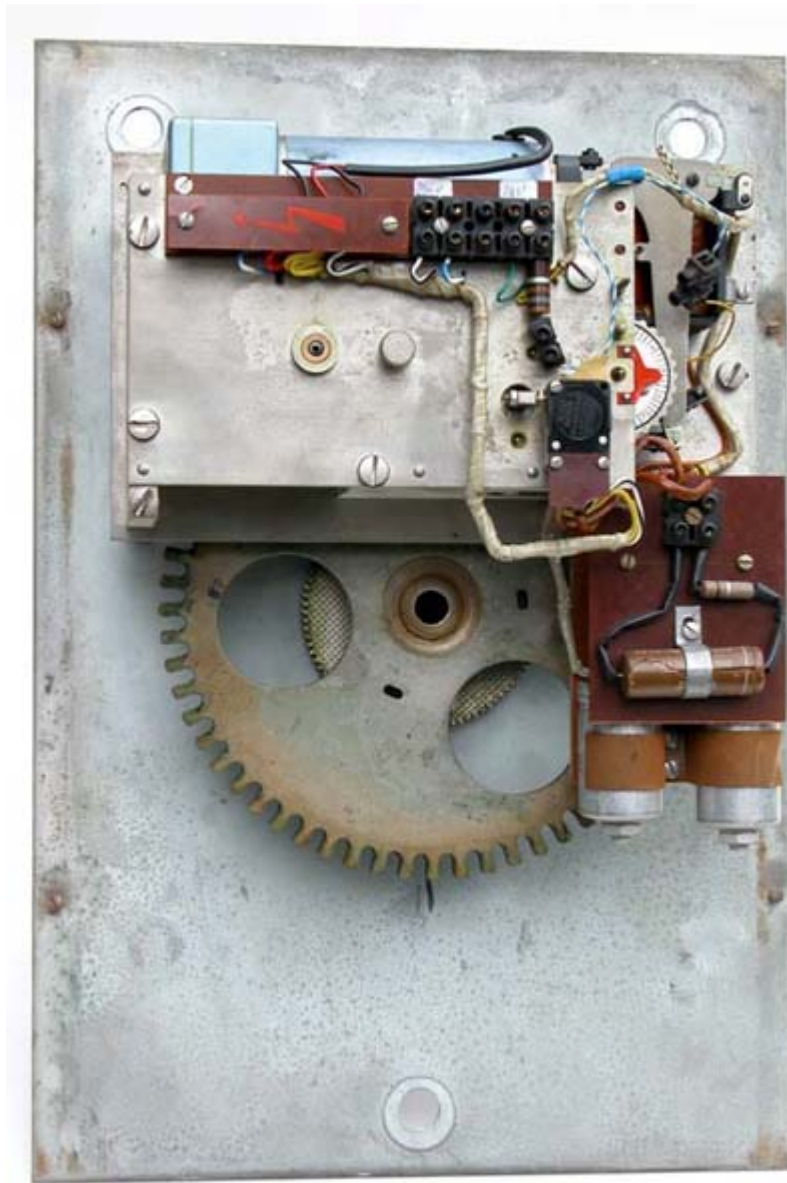
Favag bench-clock for seconds-impulses, 1946, case



Favag with synchronous motor for the seconds (Swiss railway)



Favag with synchronous motor for the seconds, modern version



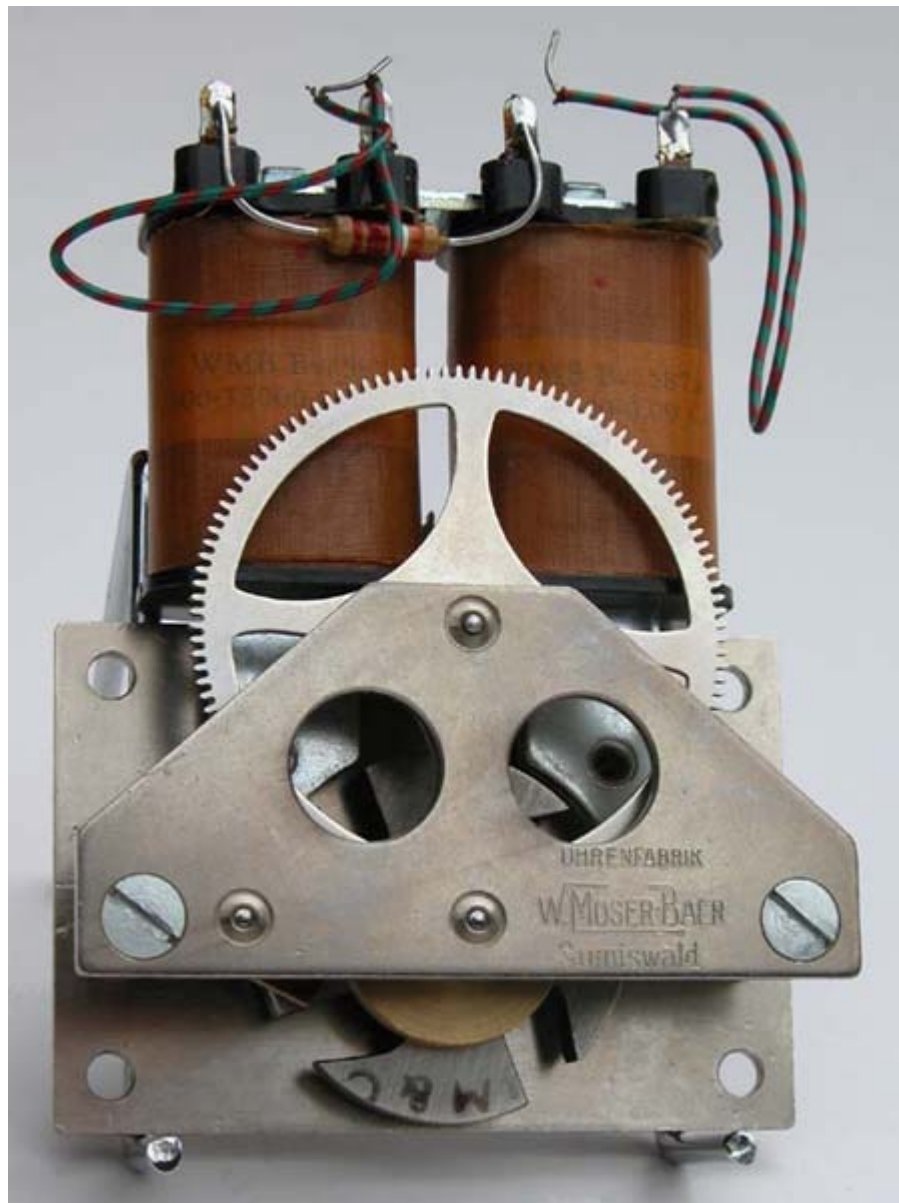
Favag tower clock with 220V motor for very large hands



David Perret, Neuchâtel, ca 1900



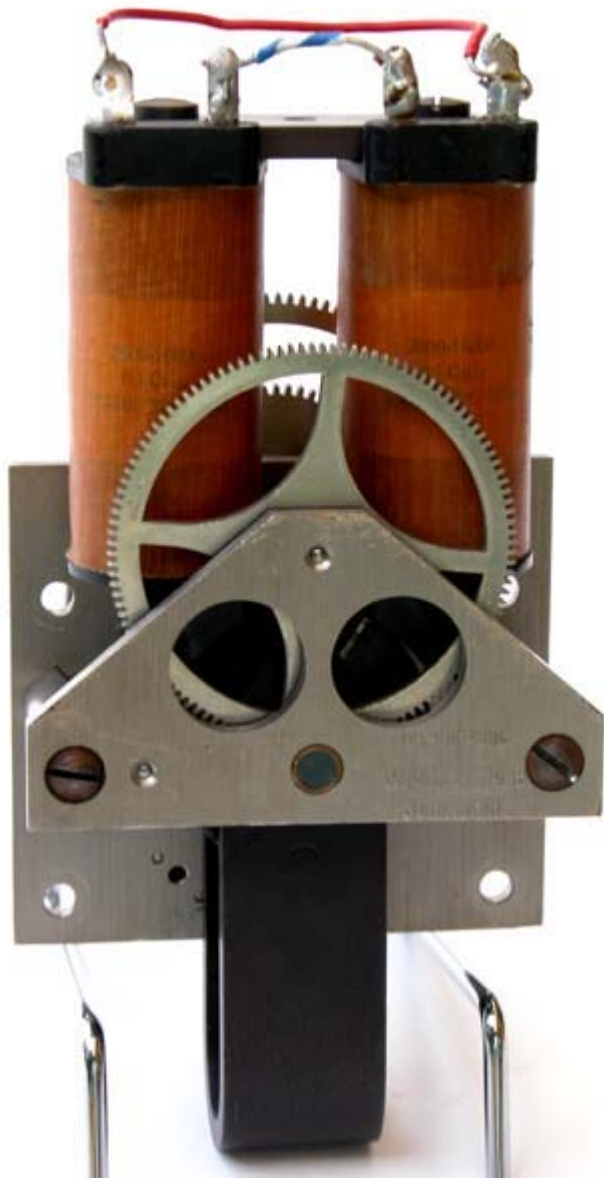
Inducta (=Magneta)



Moser-Baer



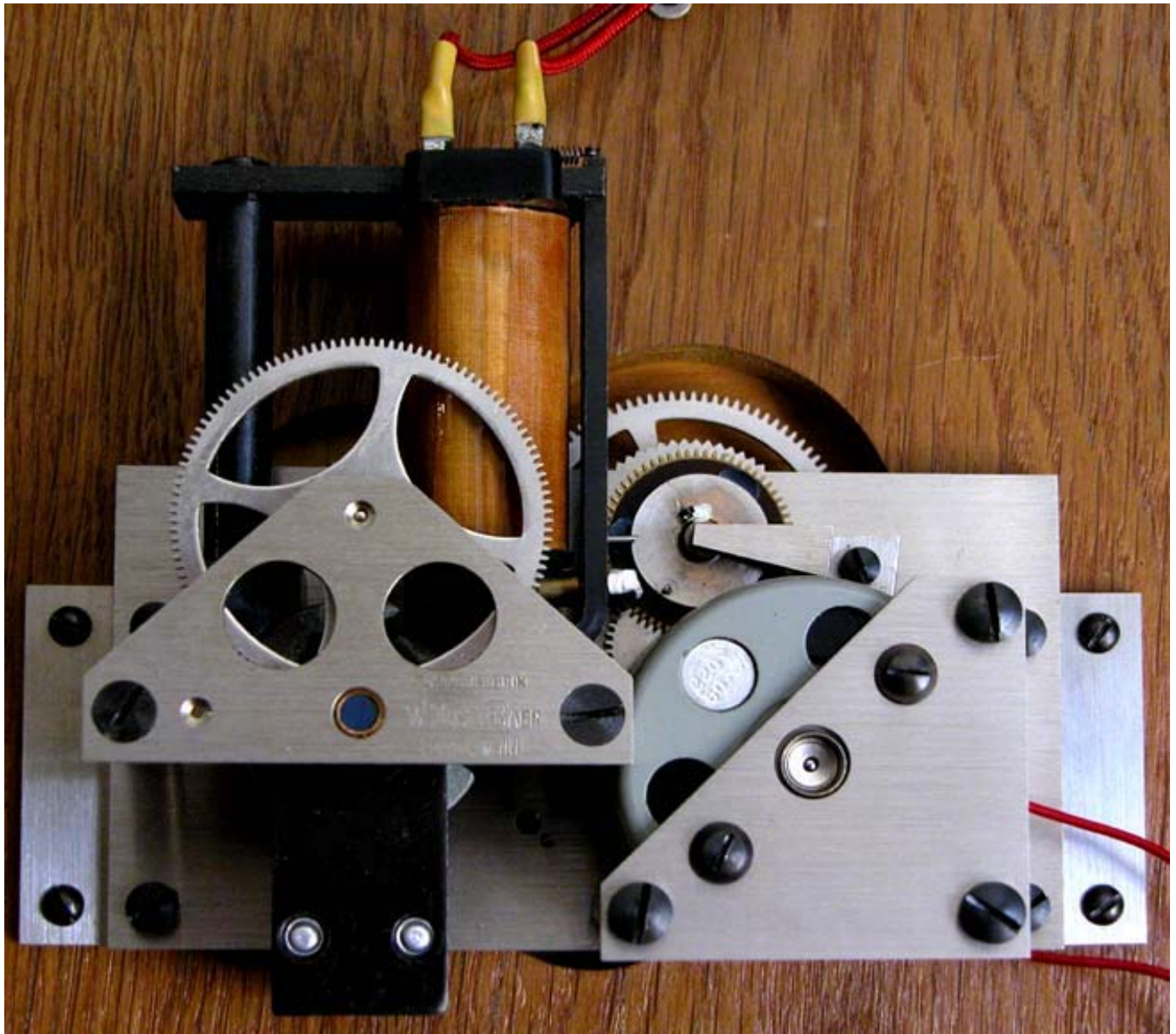
Moser-Baer



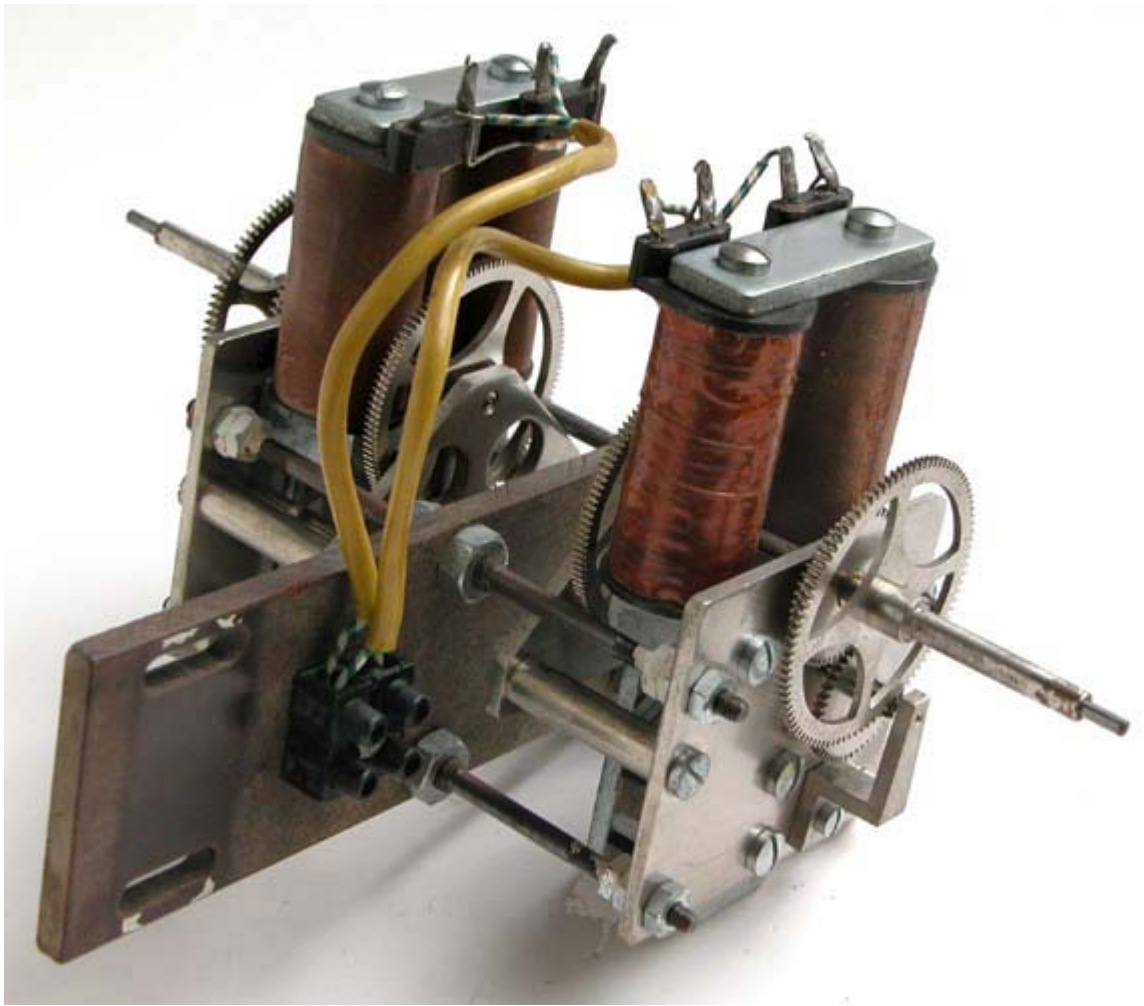
Moser-Baer



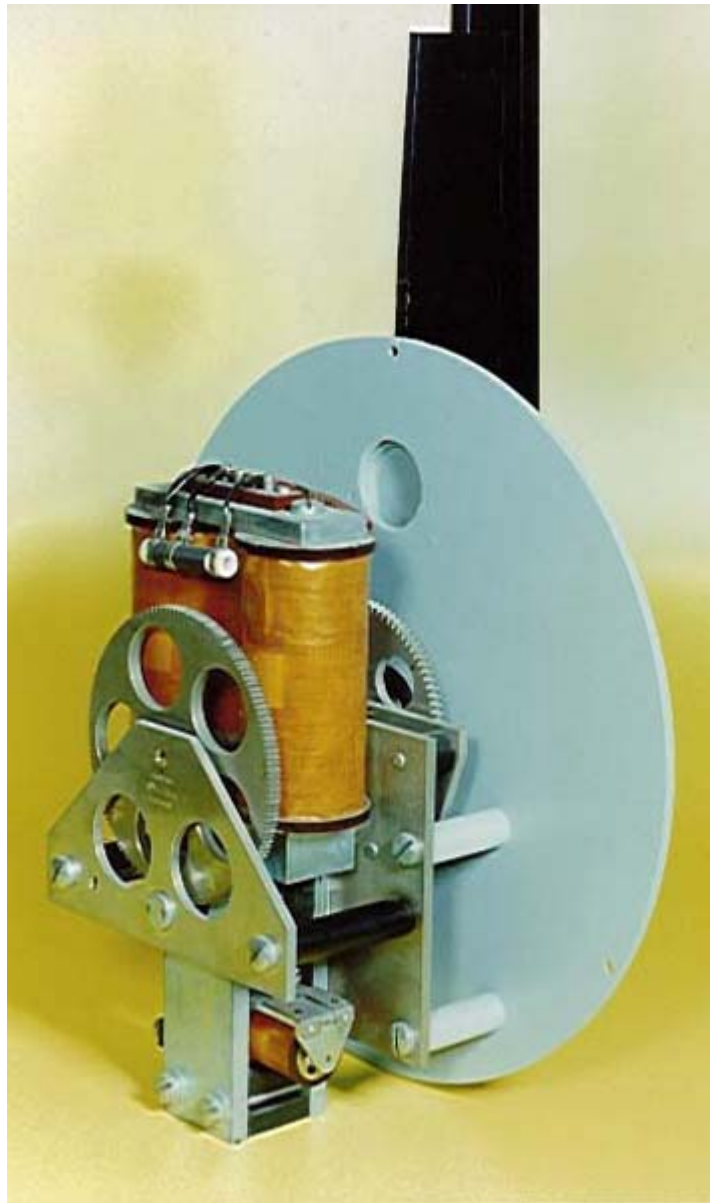
Moser-Baer for seconds-impulses



Moser-Baer with synchronous seconds



Moser-Baer double-clock for double-sided case



Moser-Baer small tower clock

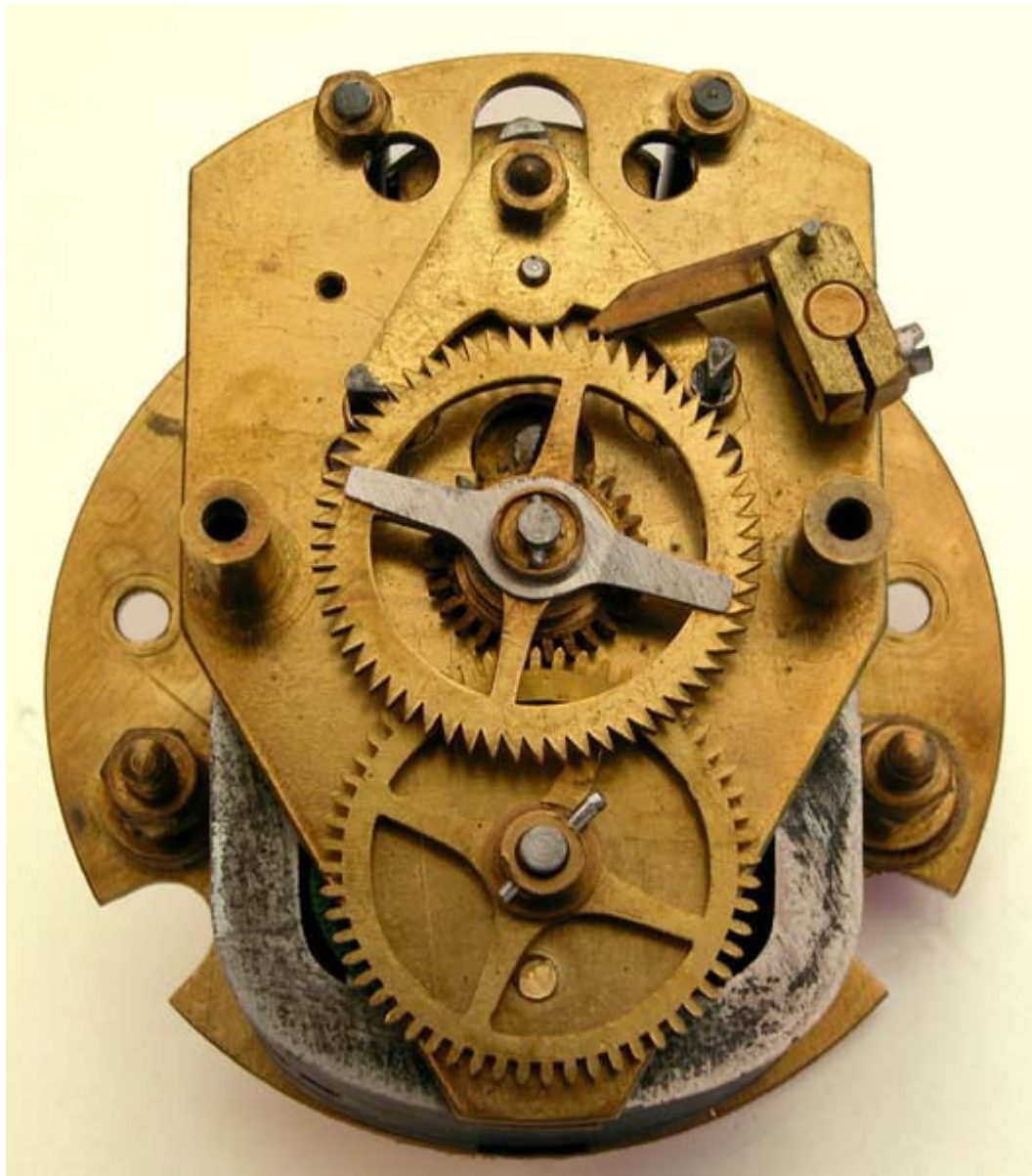
Liste: [Aron-Heliowatt](#) [Bohmeyer](#) [Brillié](#) [Charvet](#) [Charvet-Delorme](#) [Gent](#) [Pega-W.Zeh](#)
[Siemens](#) [Synchronome](#) [T&N](#) [Wagner](#) [Waiting-Train-\(Gent\)](#) [Zenith](#) [Unknown clocks](#)



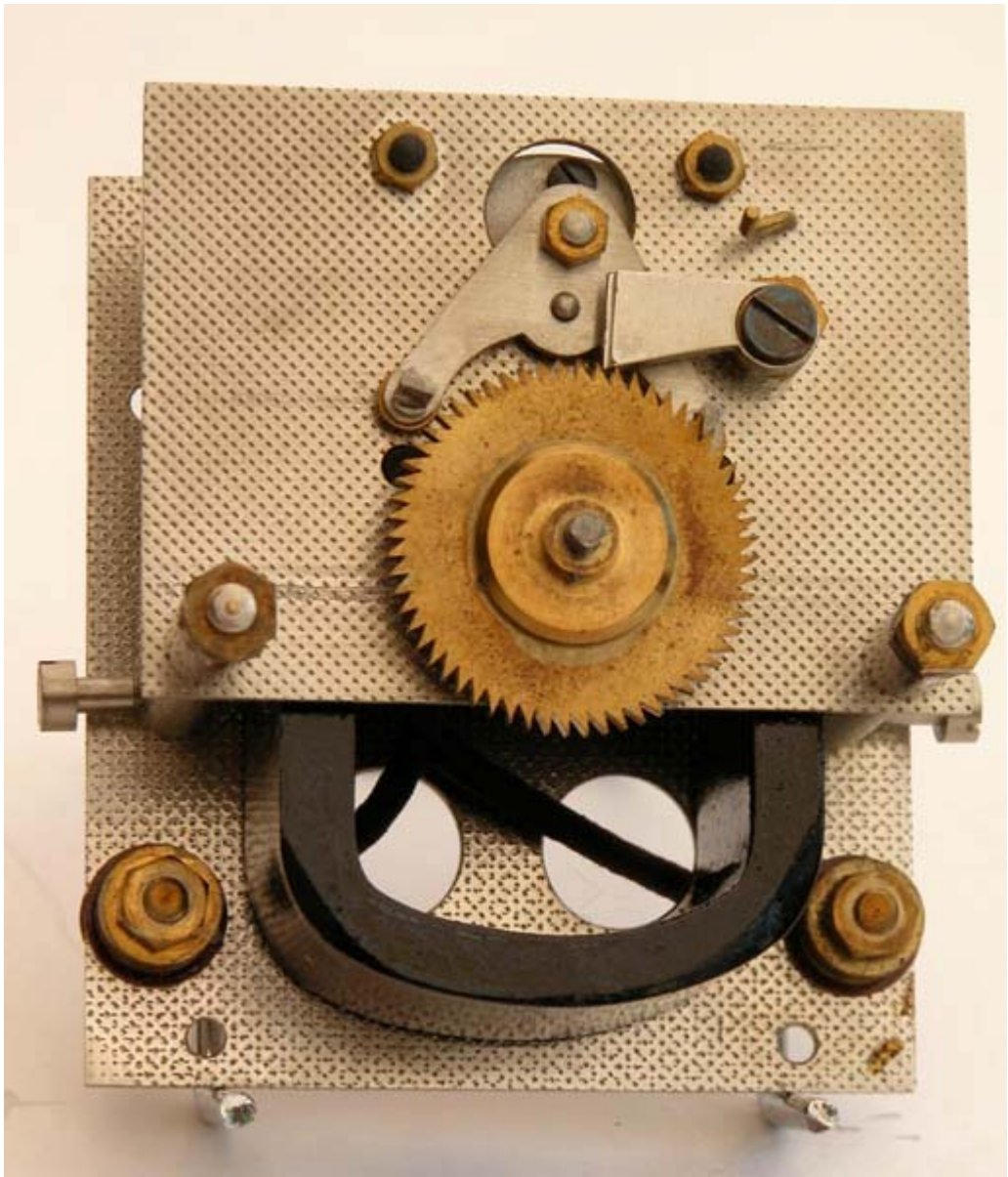
Aron-Heliowatt



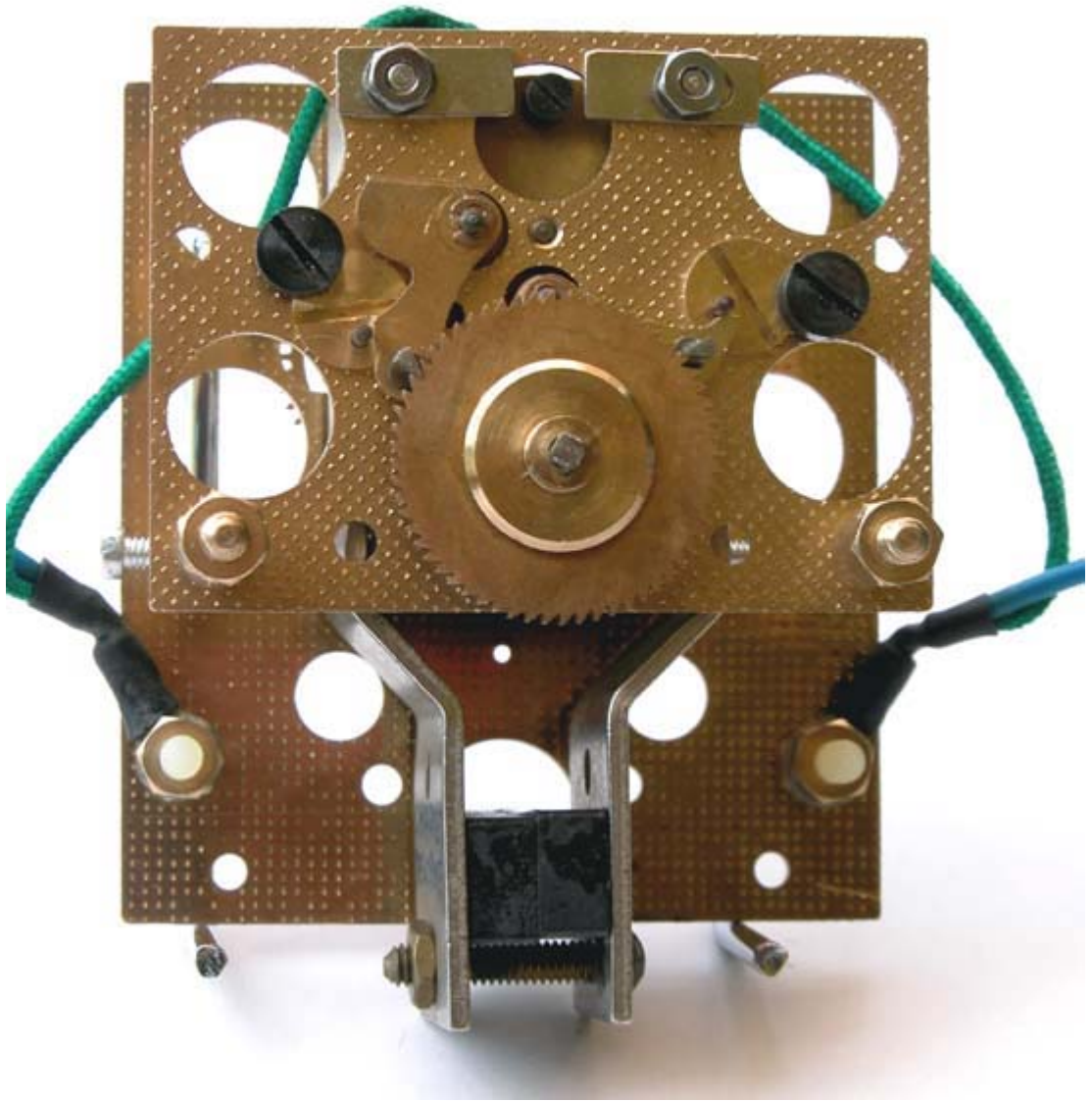
Pega-W.Zeh



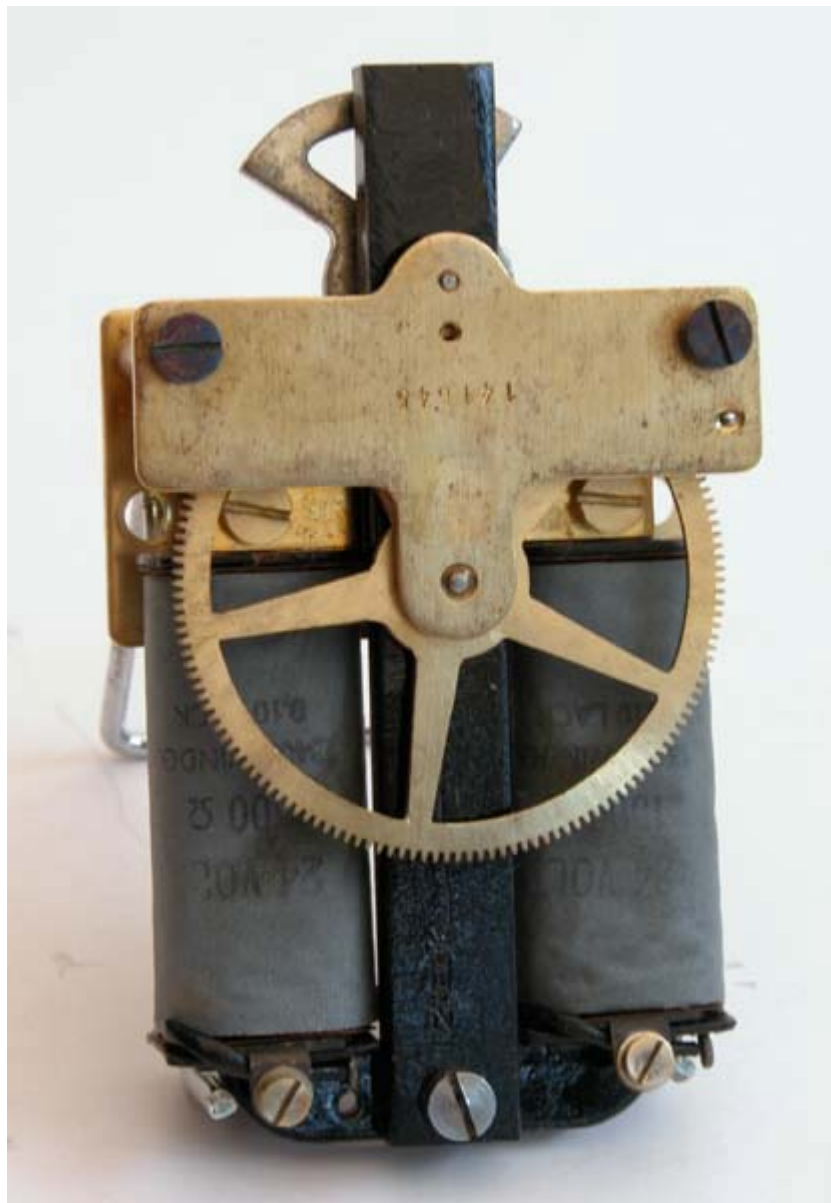
Brillié, ca 1910-1930



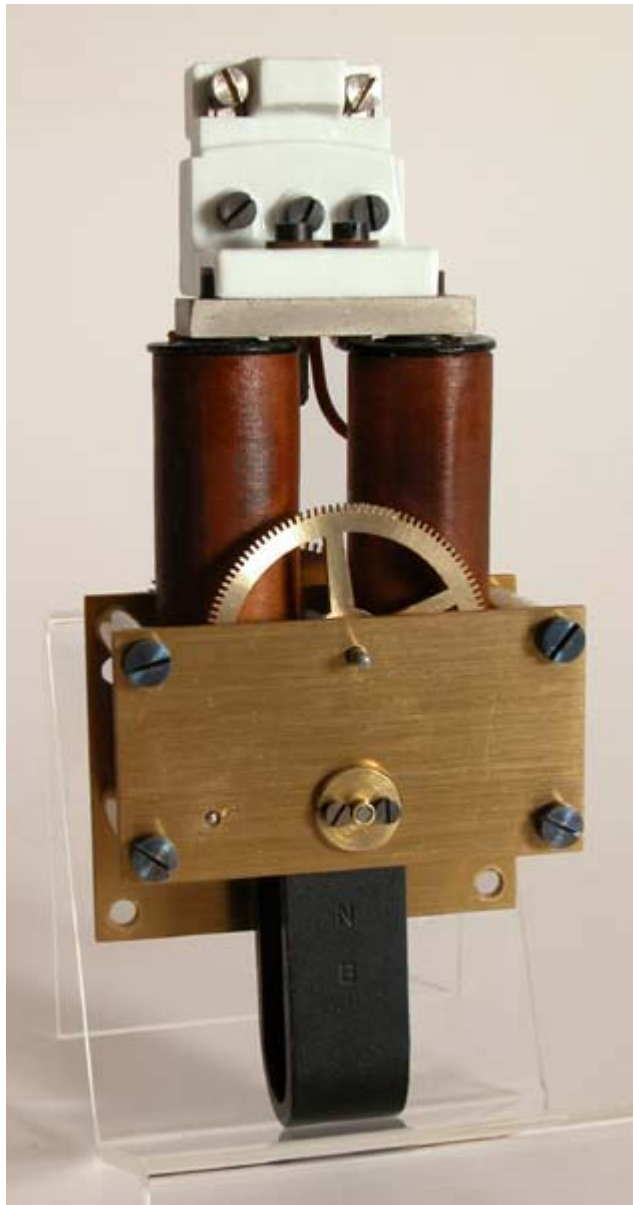
Charvet, France



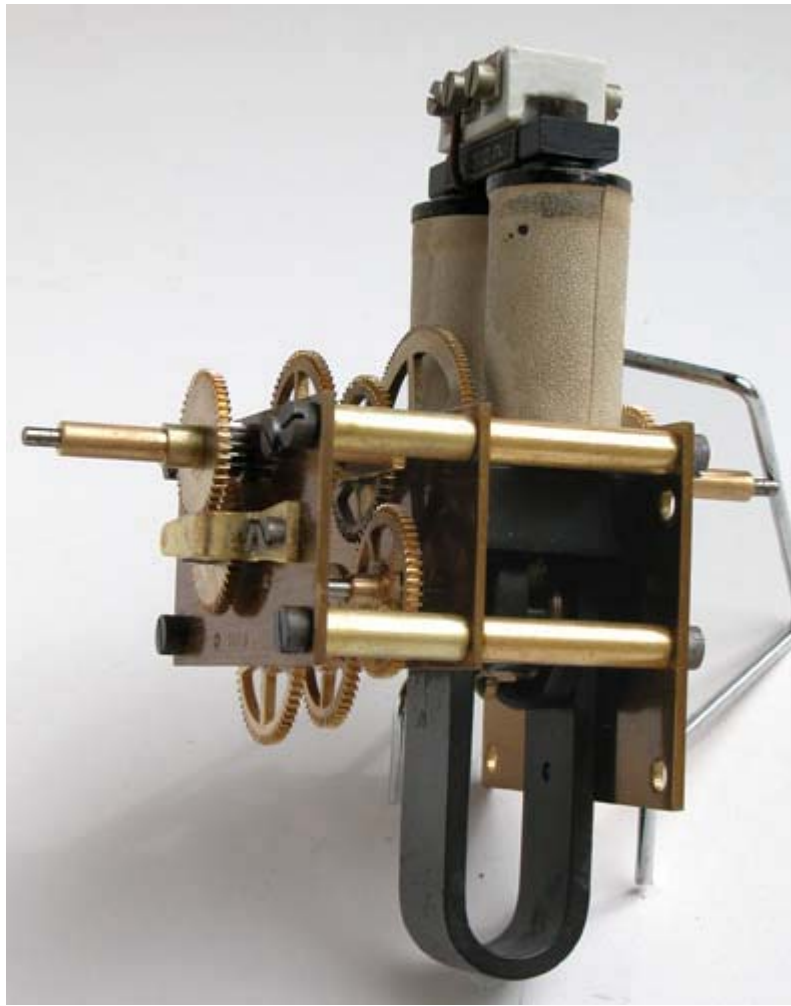
Charvet Delorme



T&N simple armature



T&N double armature



T&N double-sided clock



Siemens



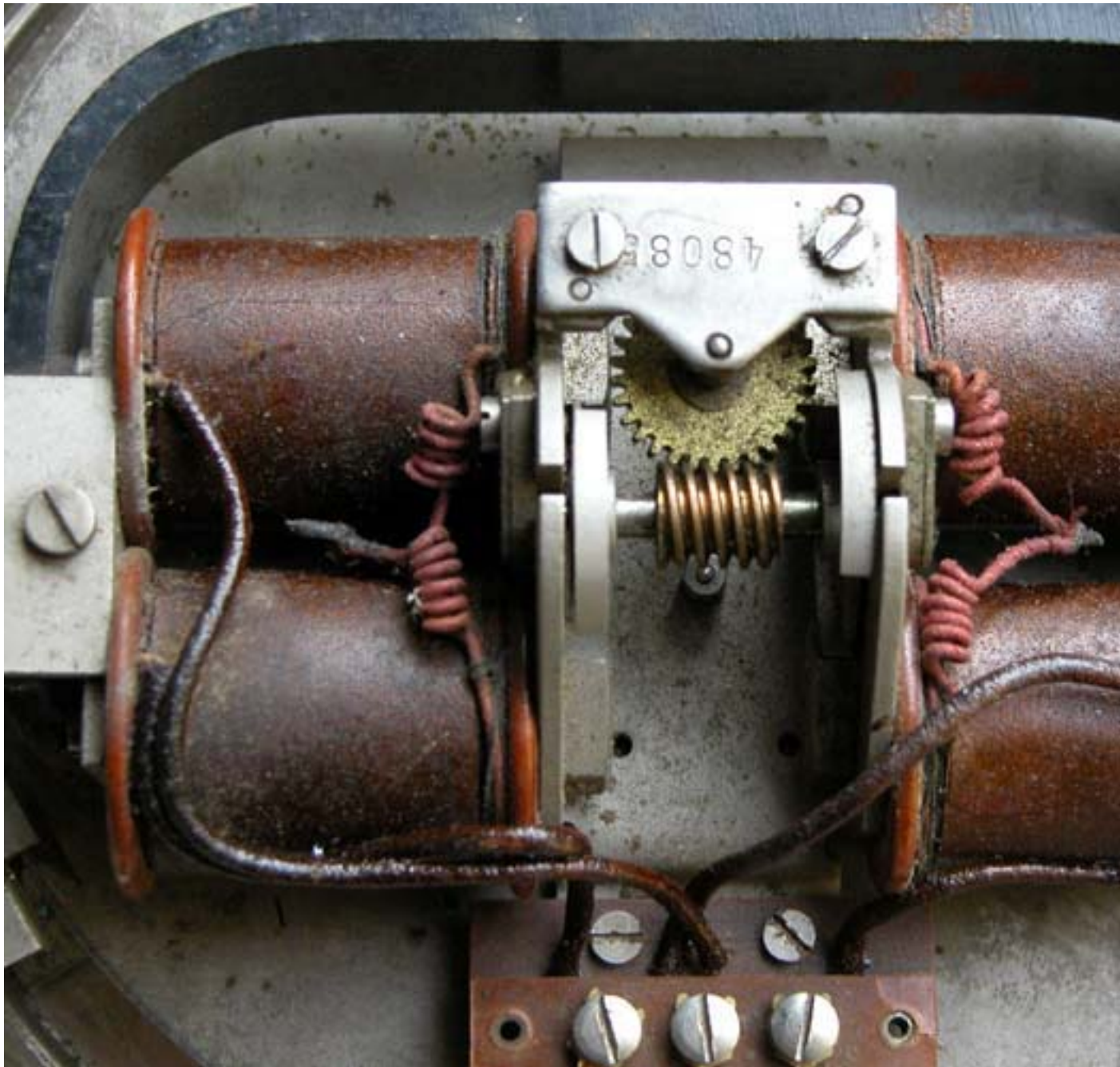
RFT Siemens (East Germany)



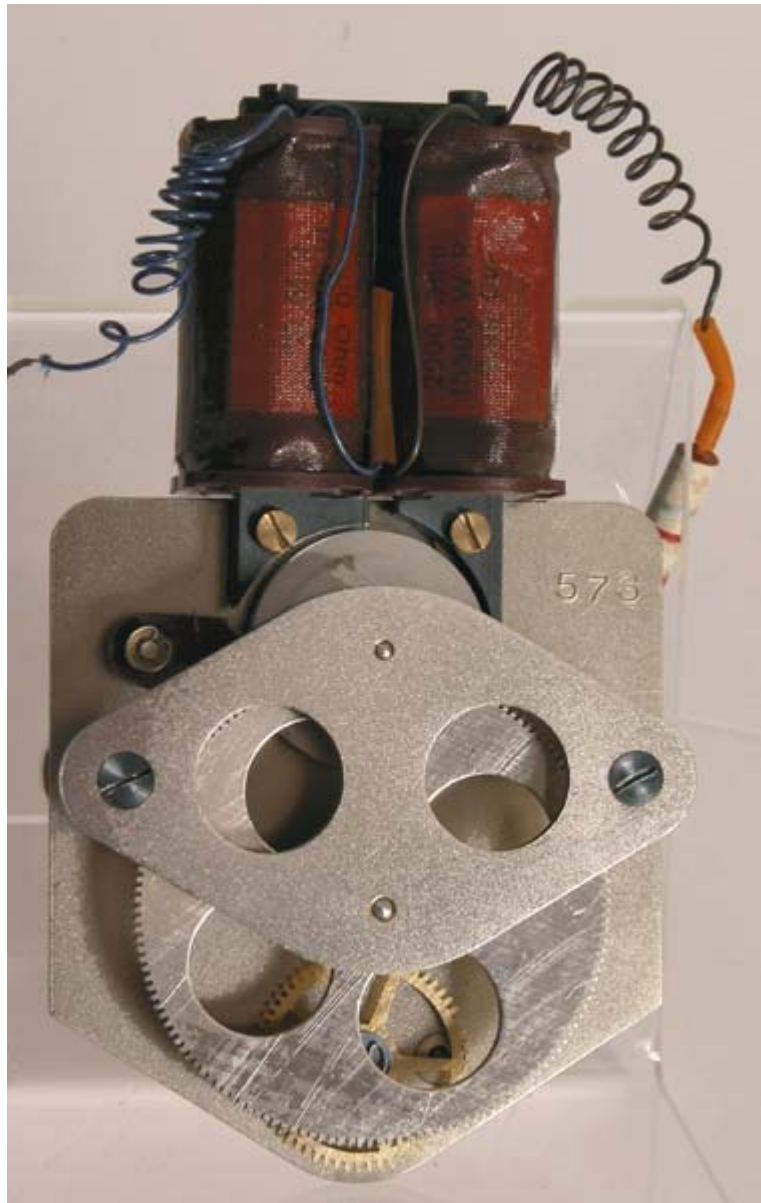
Siemens Ufw 71d



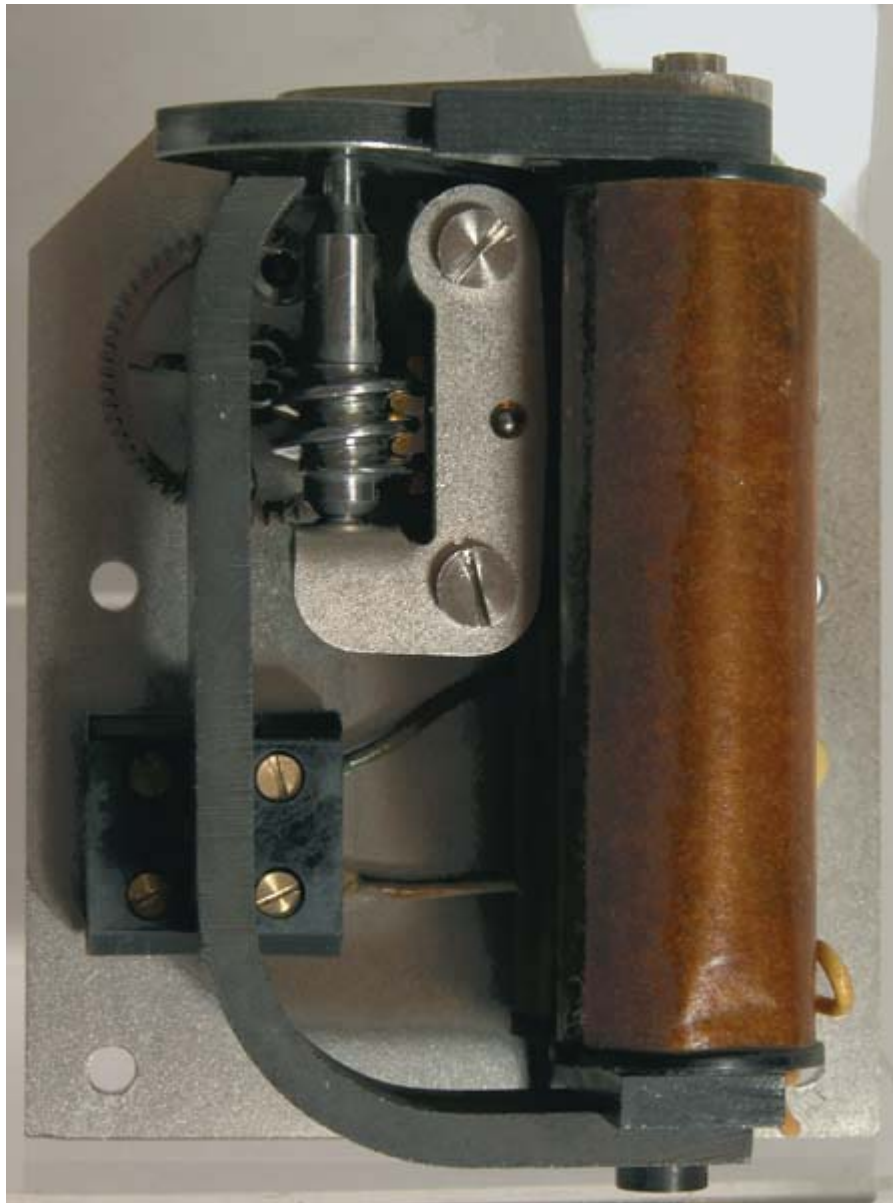
Siemens, modern flat movement



Siemens ship's clock (can go backwards to adapt to local time)



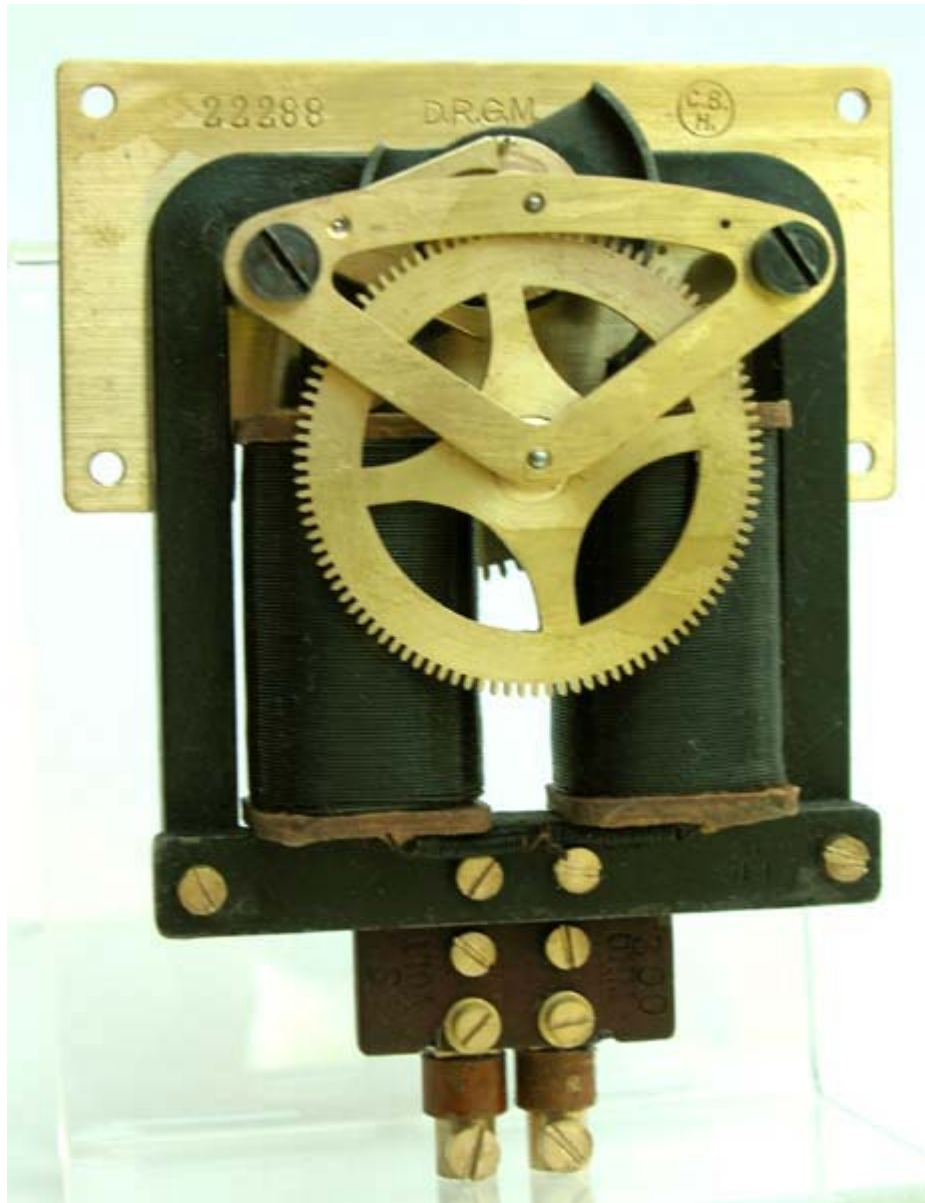
Zenith



Zenith



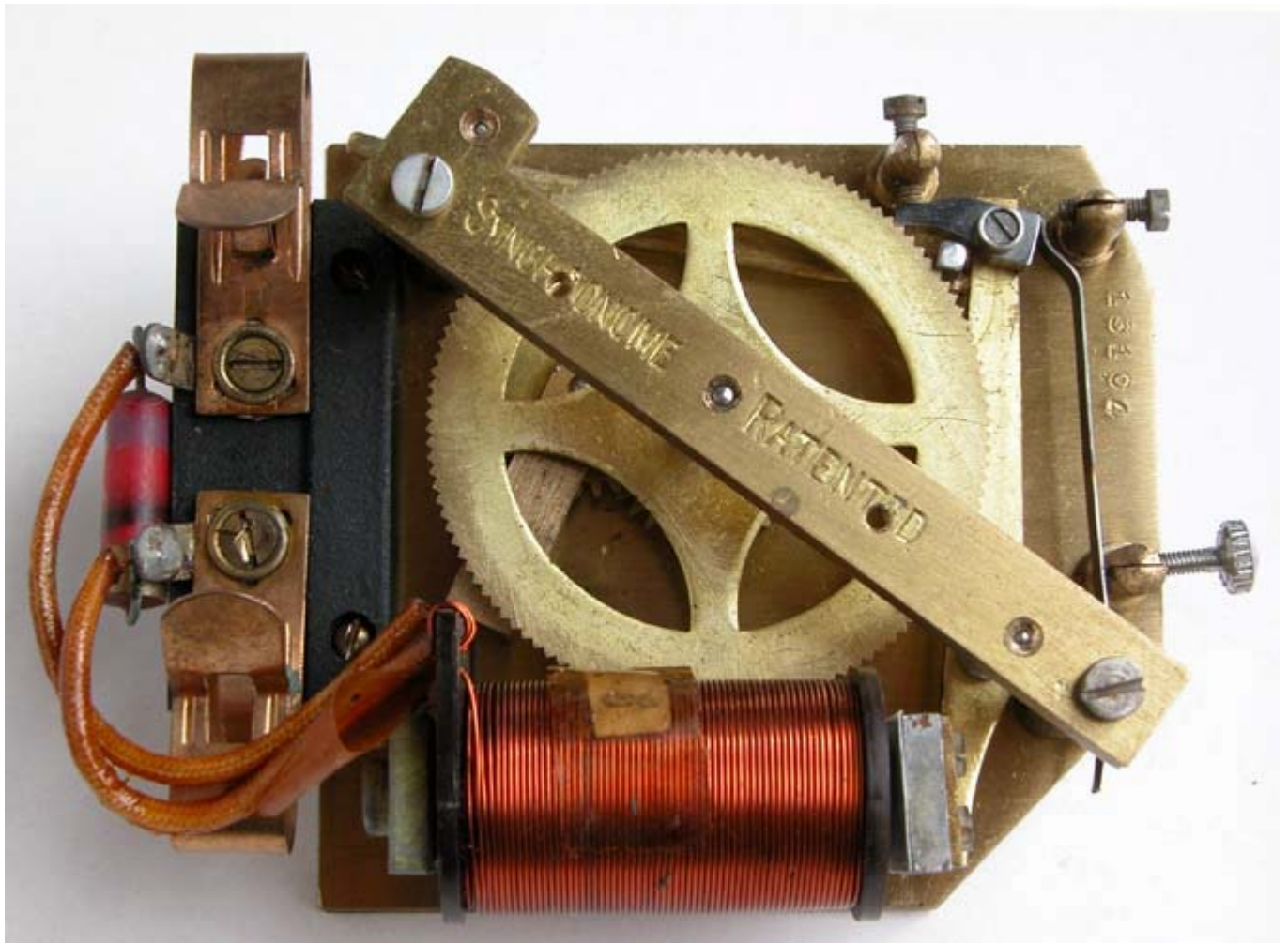
Bohmeyer medium size



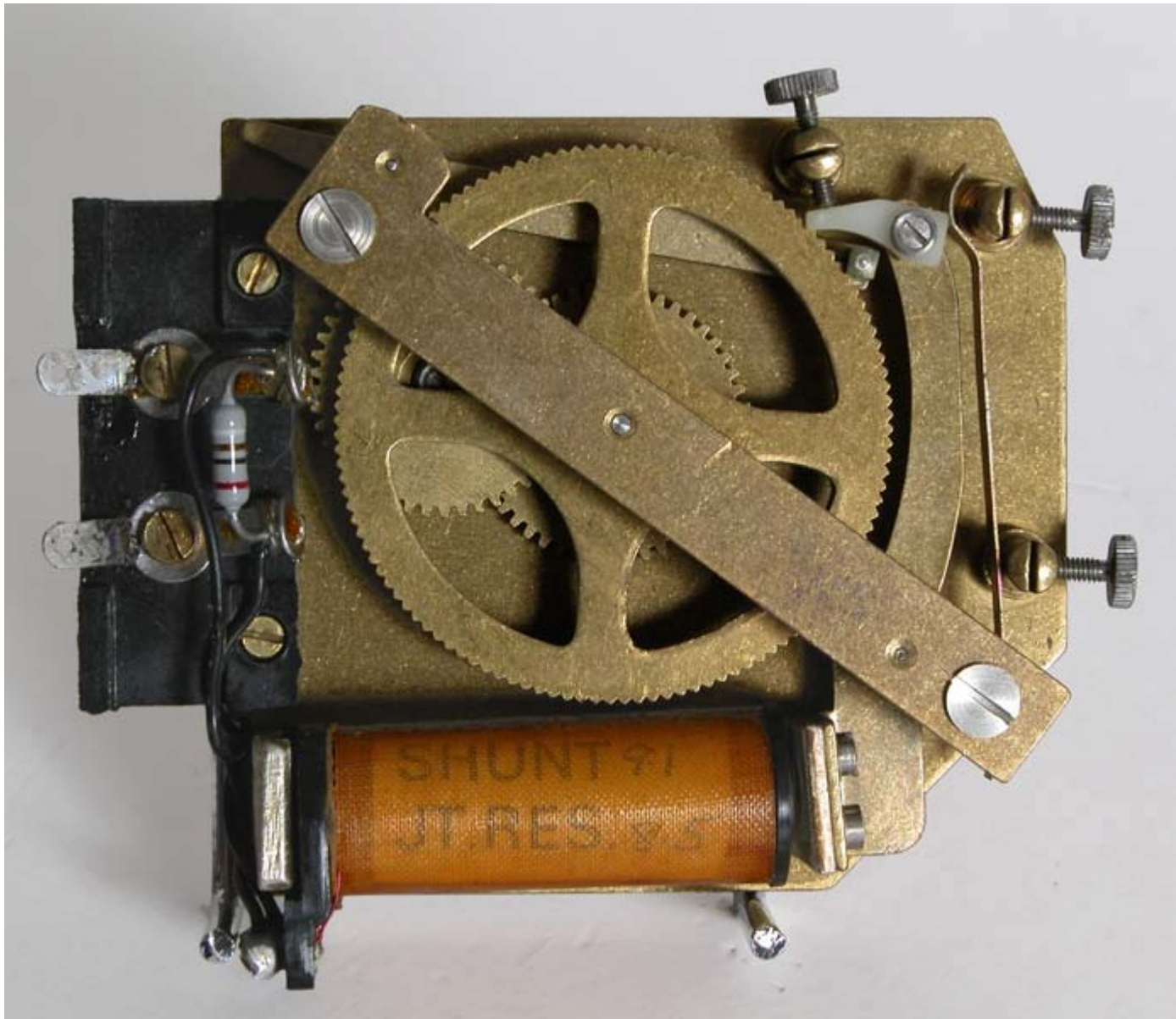
Bohmeyer small size



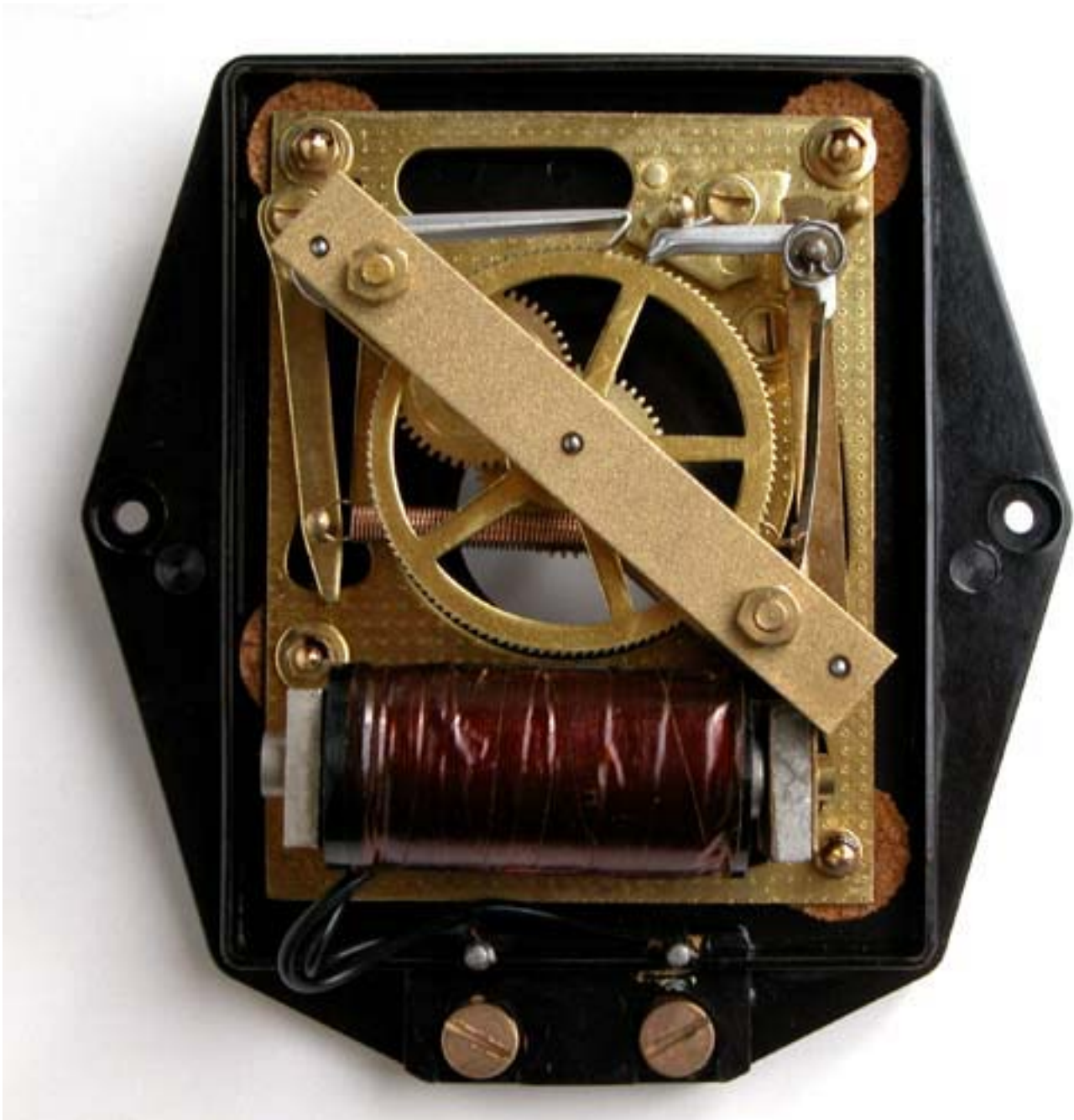
C.T. Wagner



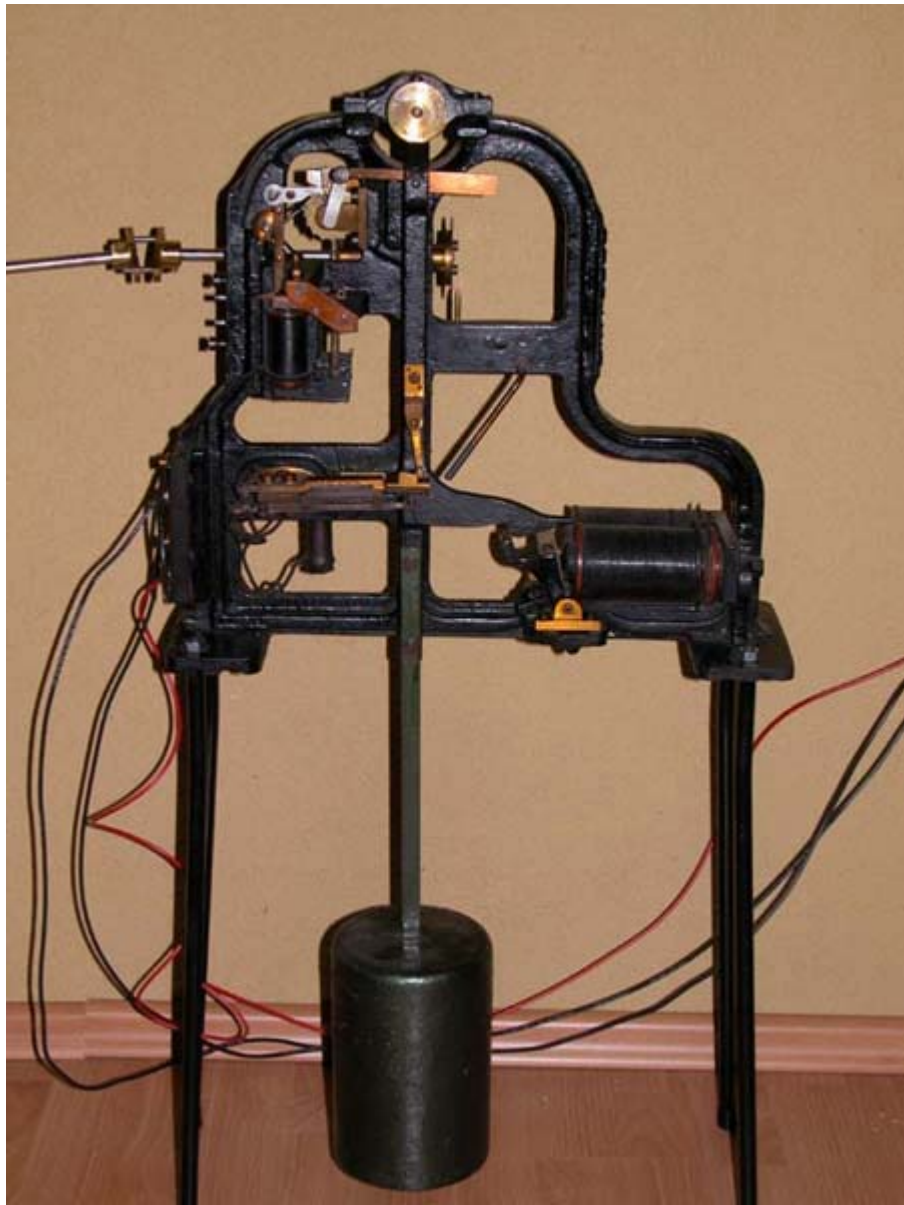
Synchronome



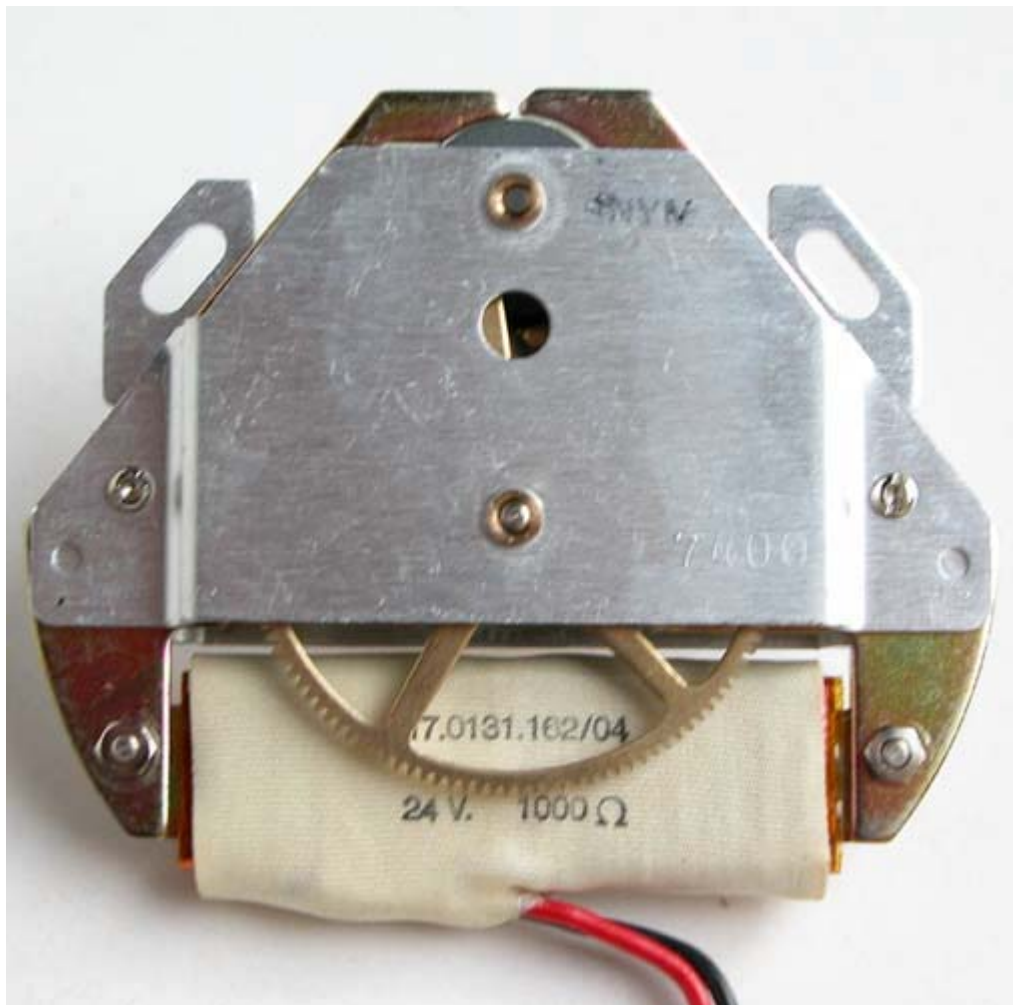
Synchronome late model



Gent



Gent Waiting Train (legs added)



SNYM (?)



Unknown, ca 1900?



Unknown, dated 1939

Last Revision: Oct. 26, 2002