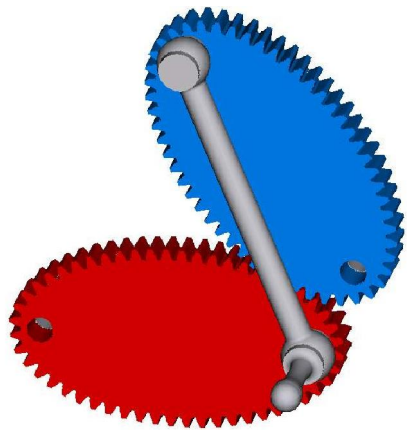
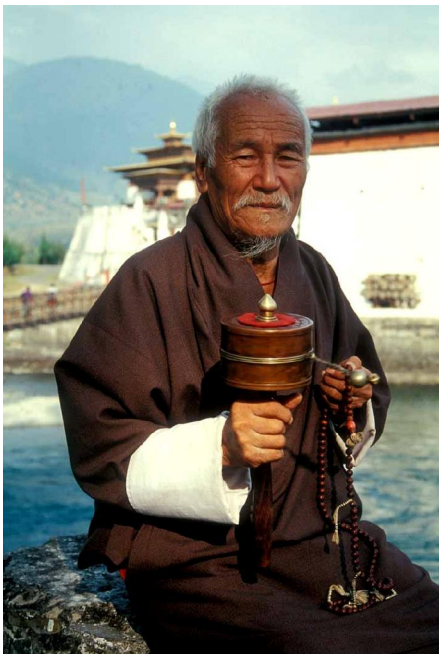




Münchausen báró és az elliptikus fogaskerekek

avagy a tibeti láma esete az inercia hajtóművel



Dr.Laczik Bálint

laczik@goliat.eik.bme.hu





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following is a specification.

My invention relates to improvements in automobiles and more particularly to a propelling means therefor, the object of the invention being the production of a machine which shall be driven by the force of gravity.

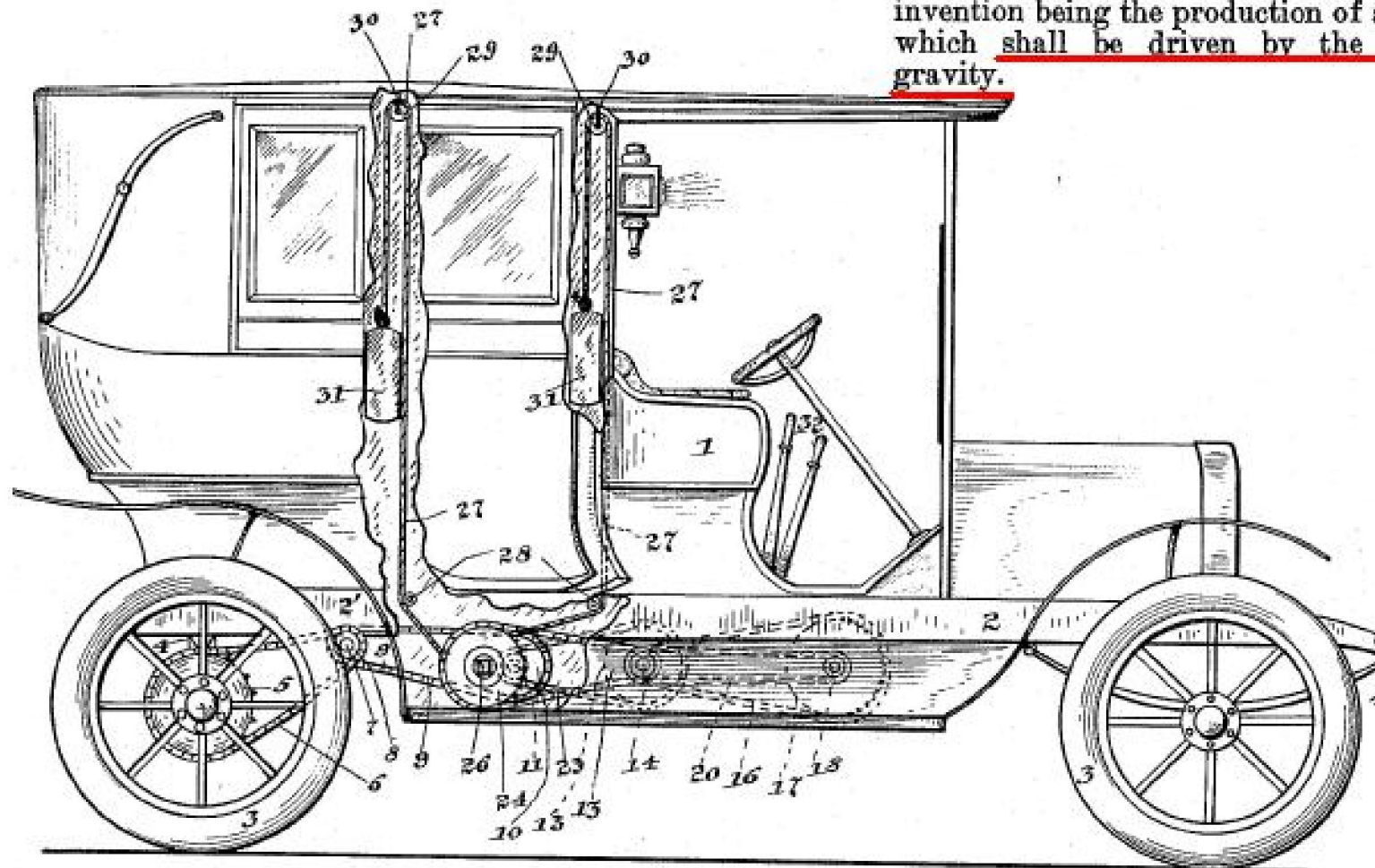


Fig. 2.

UNITED STATES PATENT OFFICE.

ISAAC SMYTH, OF CHICAGO, ILLINOIS

AUTOMOBILE.

905,037.

Specification of Letters Patent. Patented June 13, 1911.

Application filed December 13, 1909. Serial No. 532,680.

(19) United States

(12) Patent Application Publication
Barksdale

(10) Pub. No.: US 2007/0090648 A1

(43) Pub. Date: Apr. 26, 2007

(54) ENERGY GENERATION DEVICE

(52) U.S. CL. 290/1 R

(76) Inventor: Michael C. Barksdale, Wildomar, CA
(US)

(57) ABSTRACT

Aug. 16, 1966

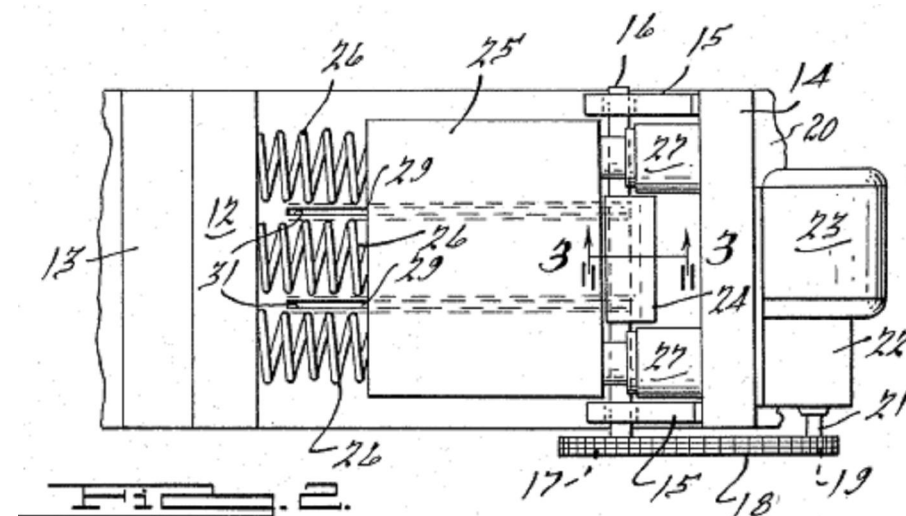
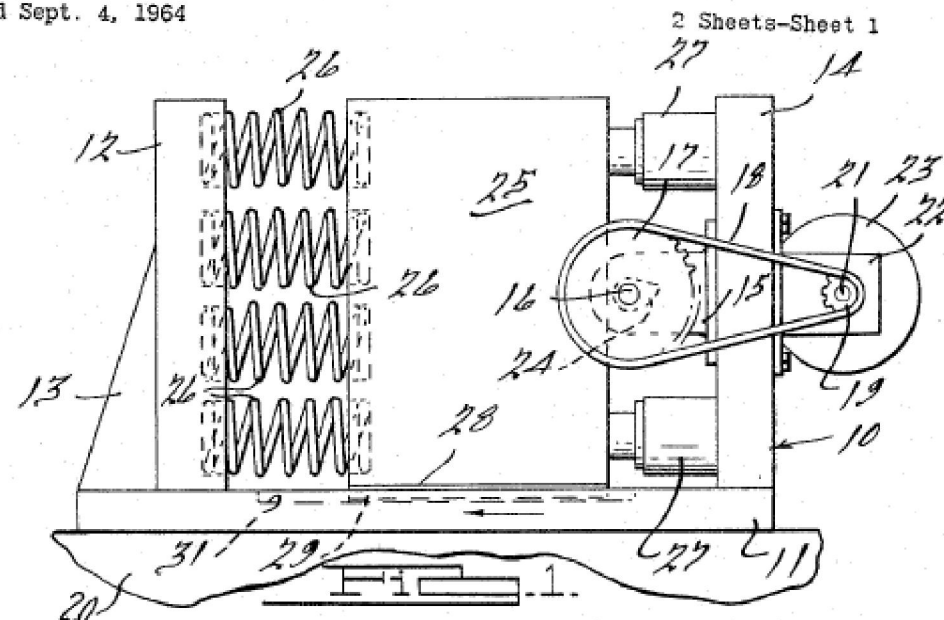
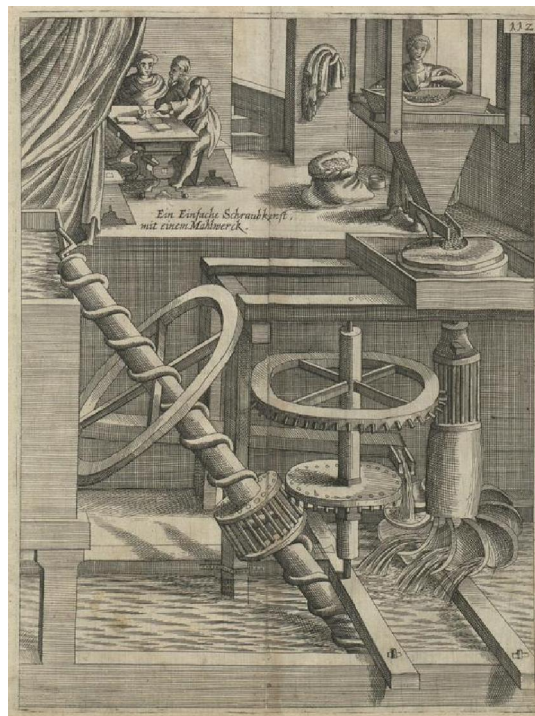
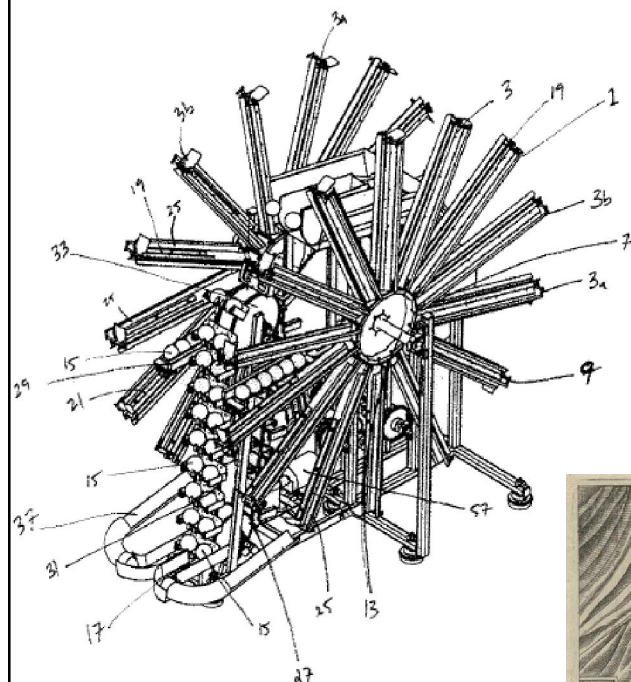
A. W. FARRALL

3,266,233

INERTIA PROPULSION DEVICE

Filed Sept. 4, 1964

2 Sheets-Sheet 1



United States Patent [19]

Shimshi

[11] Patent Number: 5,901,804

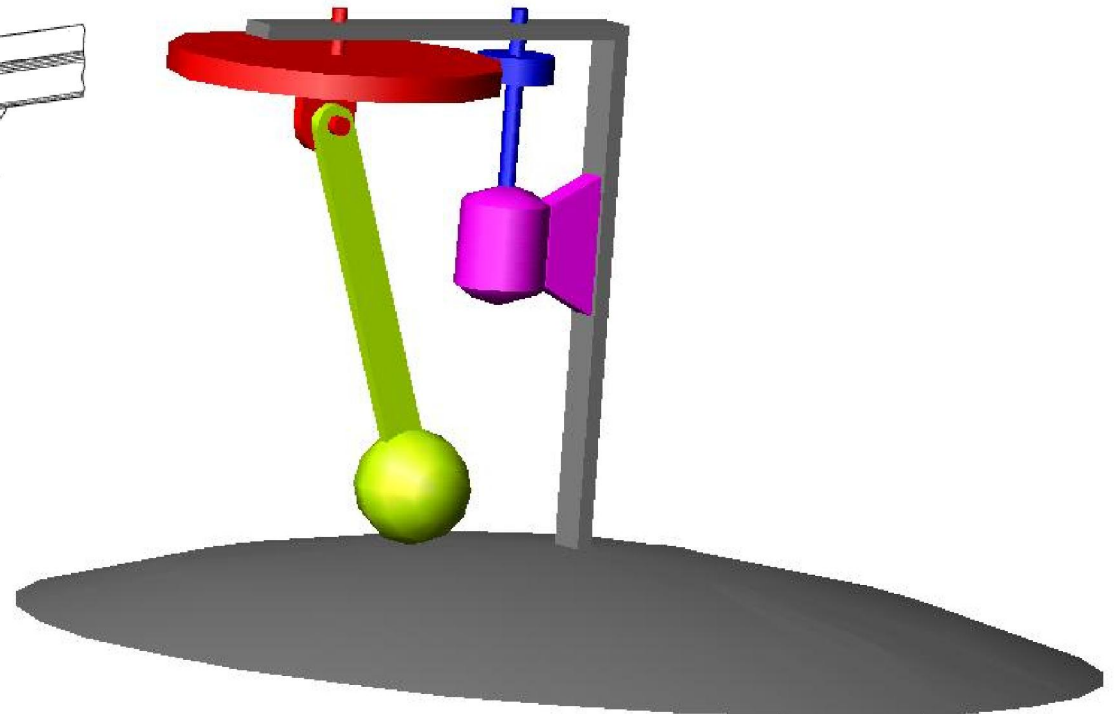
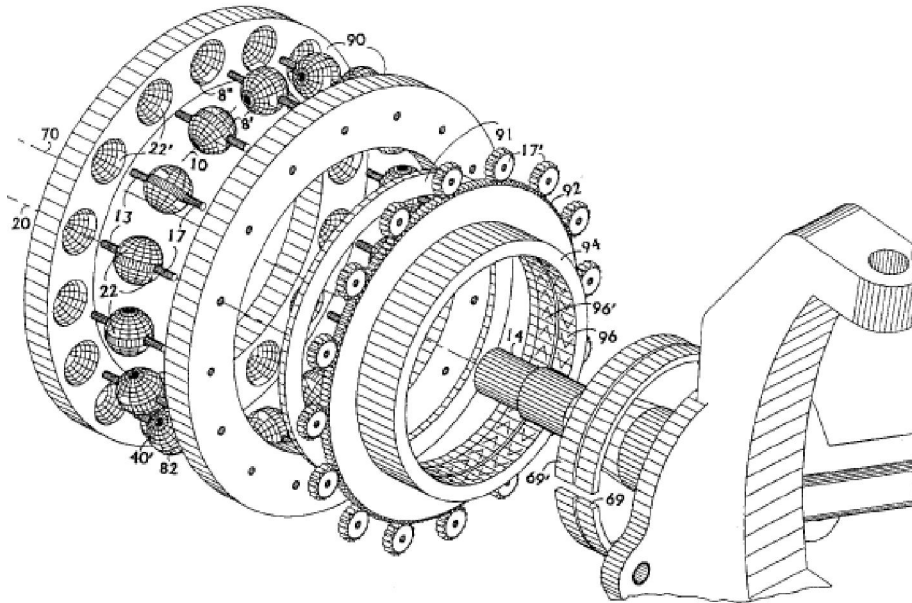
[45] Date of Patent: May 11, 1999

[54] ENERGY WHEEL

[76] Inventor: Ezra Shimshi, P.O. Box 421011,
Atlanta, Ga. 30342

[57] ABSTRACT

One object of the present invention is to avoid loss of energy during deceleration of a vehicle. Another object is to decel-



[54] INERTIA ENGINE

[76] Inventor: Everett H. Benson, Rt. 1, Box 429,
Eagle Creek, Oreg. 97022

[22] Filed: Jan. 16, 1974

[21] Appl. No.: 433,933

1,227,981 3/1960 France 74/64
329,165 5/1930 Great Britain 74/64

Primary Examiner—Wesley S. Ratliff, Jr.
Attorney, Agent, or Firm—Klarquist, Sparkman,
Campbell, Leigh, Hall & Winston

PATENTED FEB 4 1975

3,863,510

SHEET 1 OF 3

FIG. 1

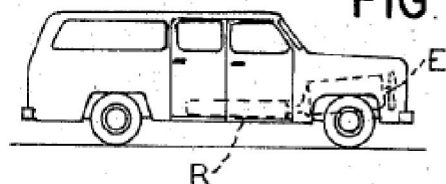
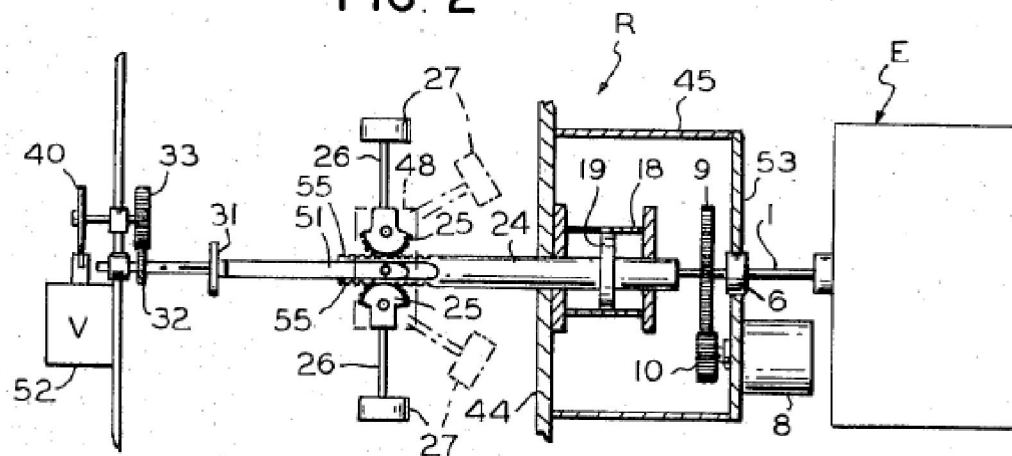
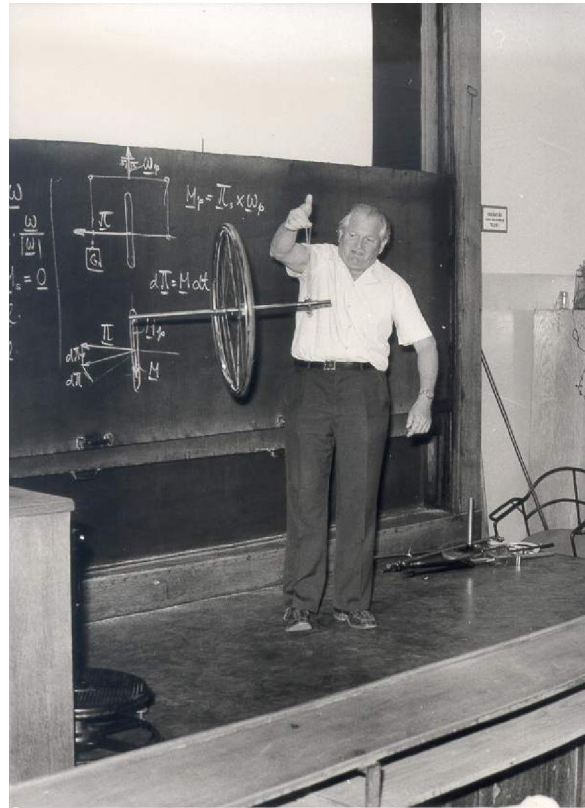
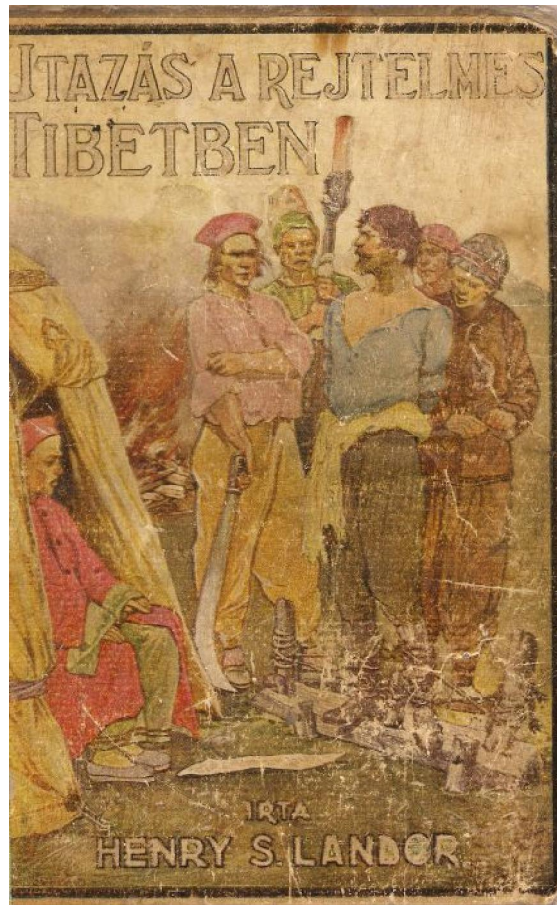


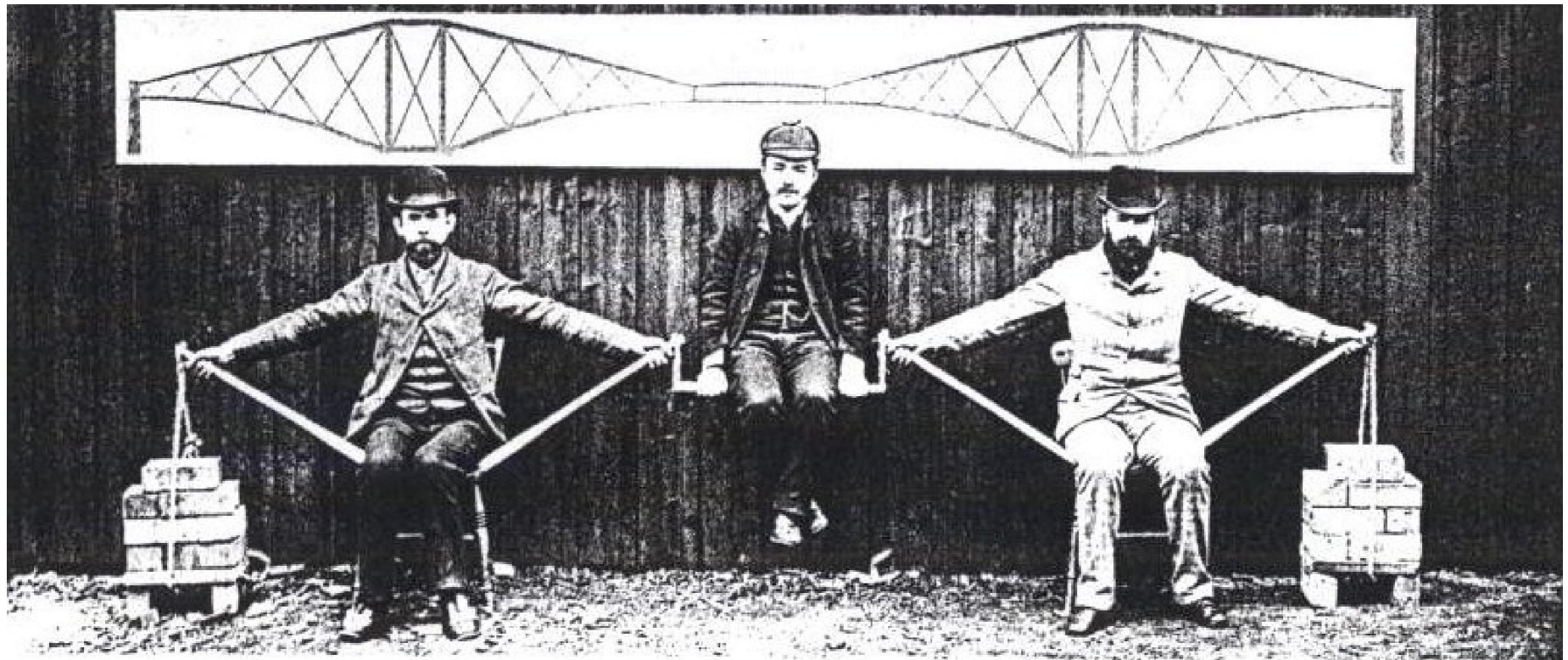
FIG. 2







Forth Rail Bridge (Edinburgh)



May 19, 1959

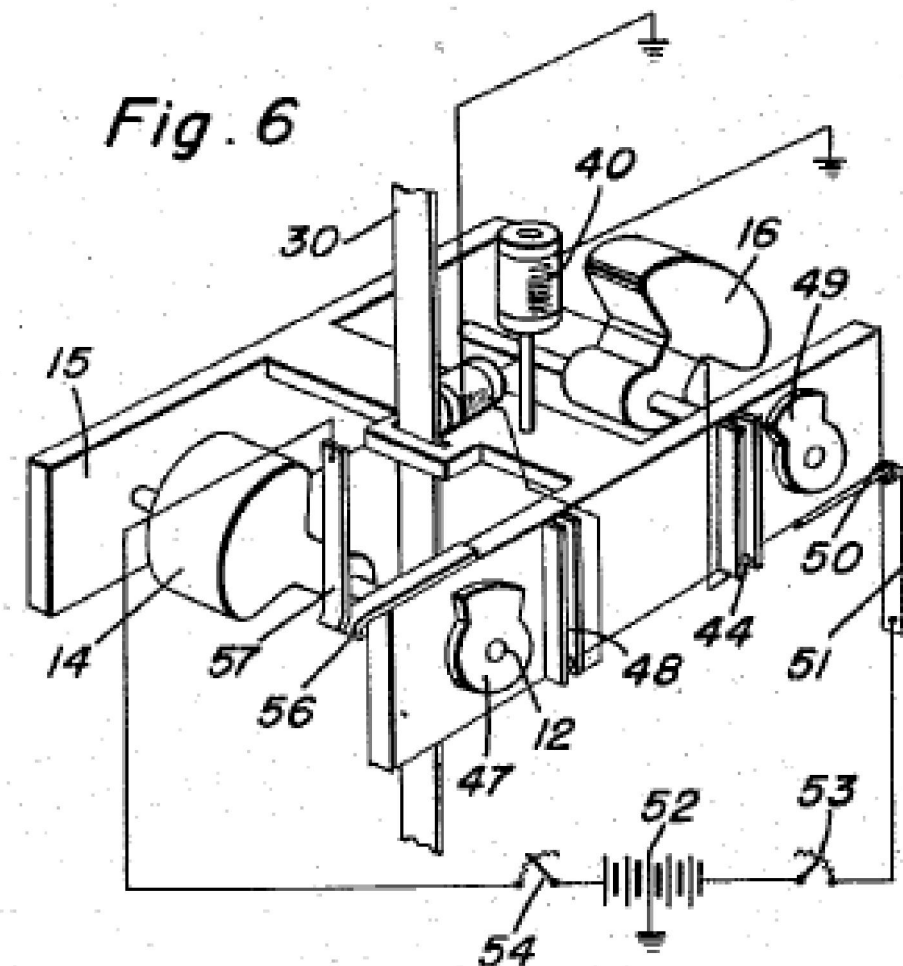
N. L. DEAN

2,886,976

SYSTEM FOR CONVERTING ROTARY MOTION INTO UNIDIRECTIONAL MOTION

Filed July 13, 1956

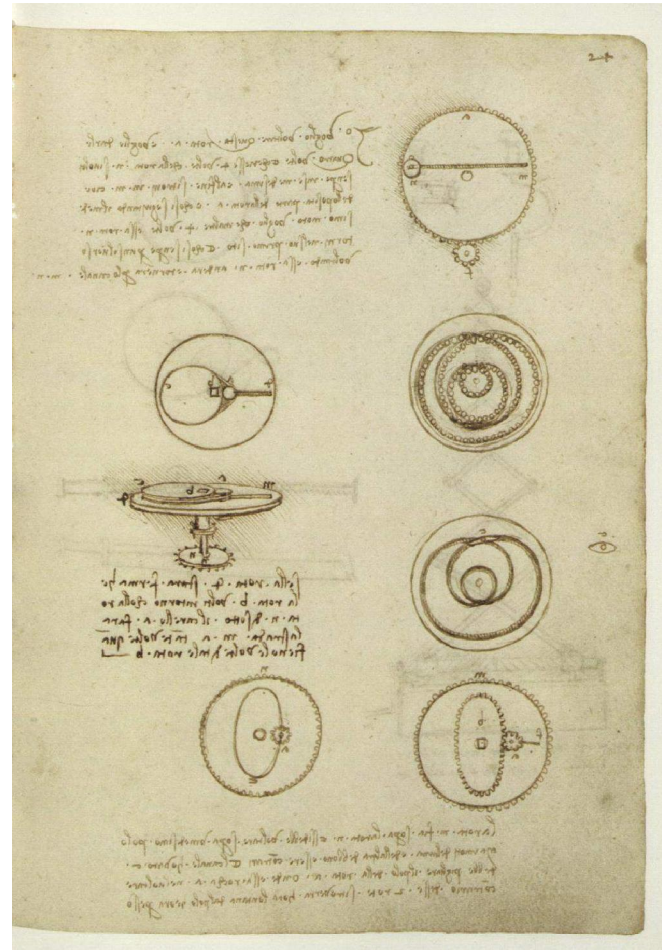
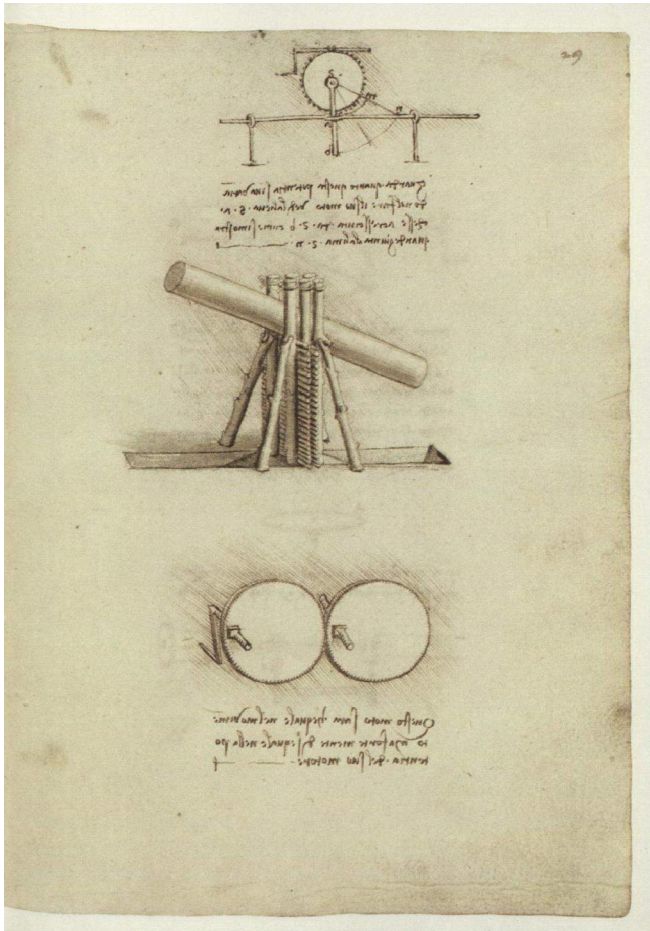
4 Sheets-Sheet 2





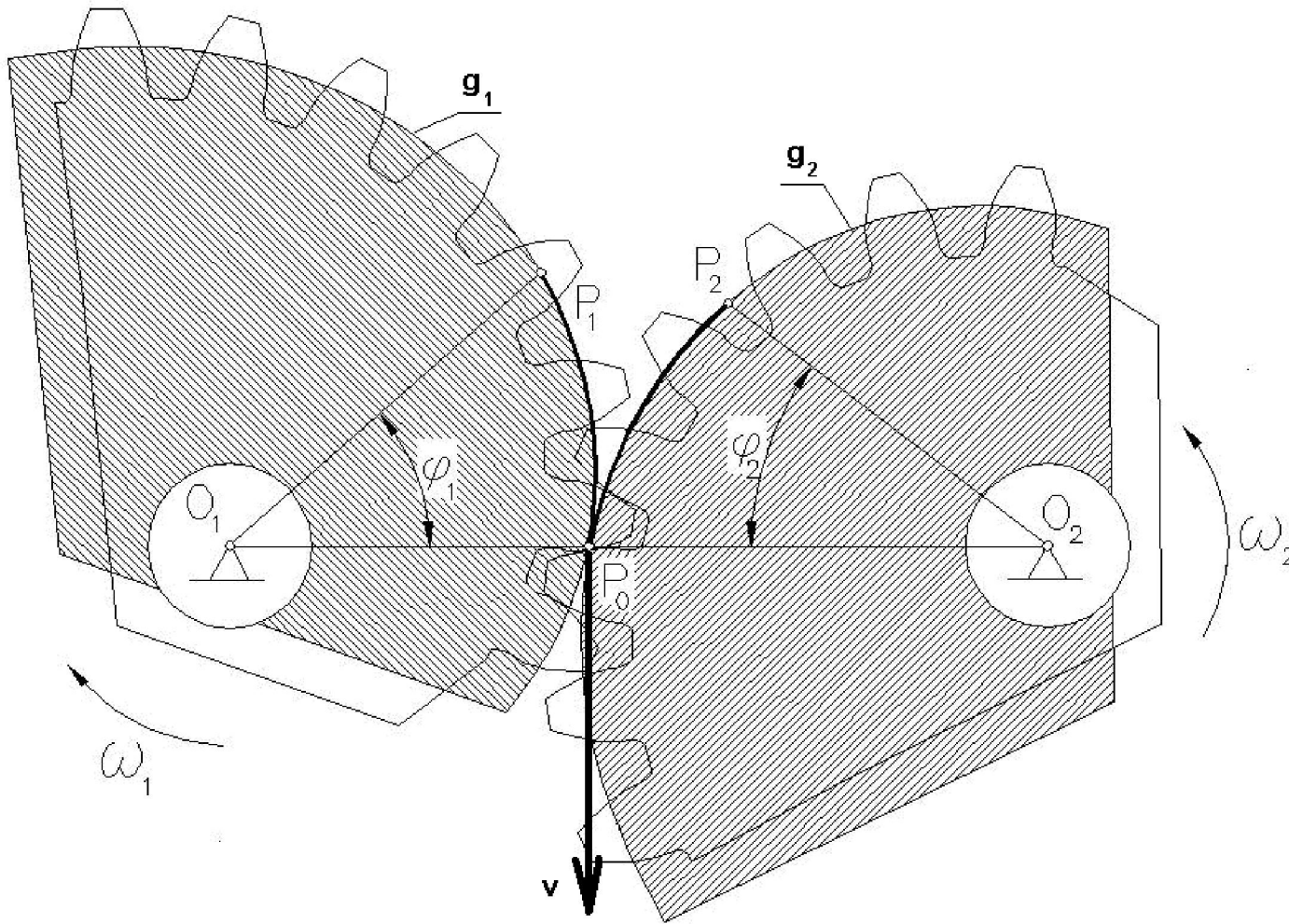
5534
H.R. 82

Leonardo da Vinci: Codex Madridii (cca. 1499)



(Rosslyn kápolna...)





$$v = R_1 \cdot \omega_1 = R_2 \cdot \omega_2$$

$$A = R_1 + R_2 = \text{const.}$$

$$\eta = \frac{\omega_2}{\omega_1} = \frac{R_1}{R_2}$$

$$R_1 = \frac{A \cdot \eta}{1 + \eta} \quad R_2 = \frac{A}{1 + \eta}$$

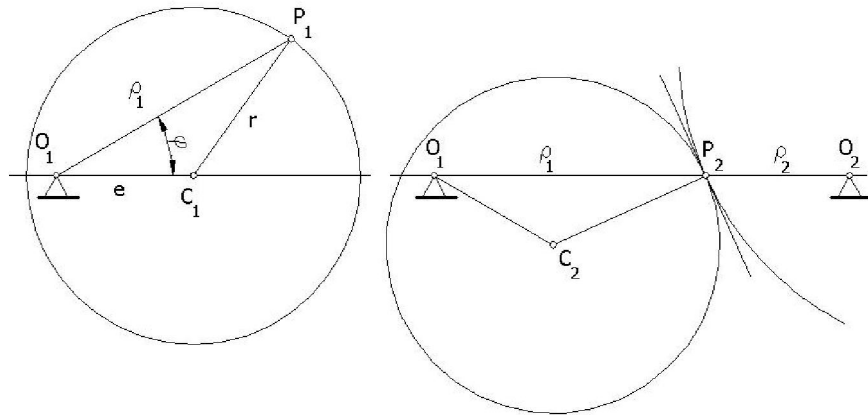
$$\Phi_1 = \omega_1 \cdot \tau = \tau$$

$$\Phi_2 := \int_0^\tau \eta \, dt$$

$$r_1 := [R_1 \cos(\tau), R_1 \sin(\tau)]$$

$$r_2 := [R_2 \cos(\Phi_2), R_2 \sin(\Phi_2)]$$

Kör alakú, excentrikus fogaskerék kapcsolódása



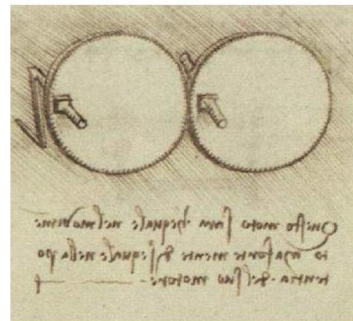
$$r^2 = e^2 + \rho_1^2 - 2e \cdot \rho_1 \cdot \cos \varphi$$

$$\rho_1 = \sqrt{r^2 - e^2 \cdot \sin^2 \varphi} + e \cdot \cos \varphi$$

$$\rho_2 = a - \rho_1$$

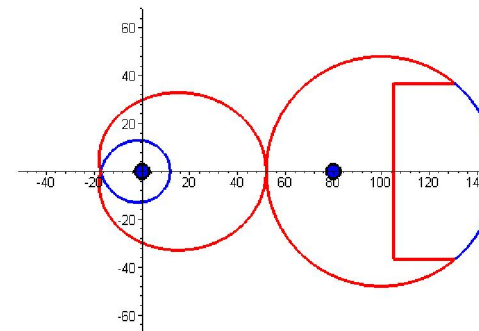
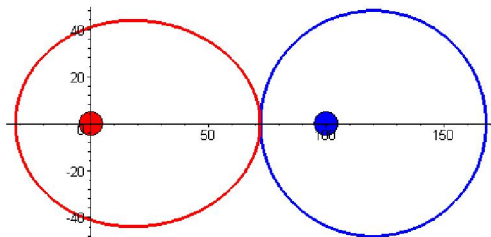
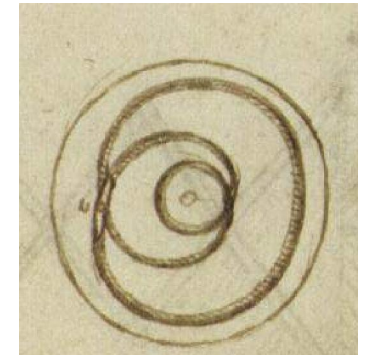
$$\eta := \frac{\sqrt{r^2 - e^2 \sin(\phi)^2} - e \cos(\phi)}{a - \sqrt{r^2 - e^2 \sin(\phi)^2} + e \cos(\phi)}$$

$$\int_0^\pi \eta d\phi = \pi$$

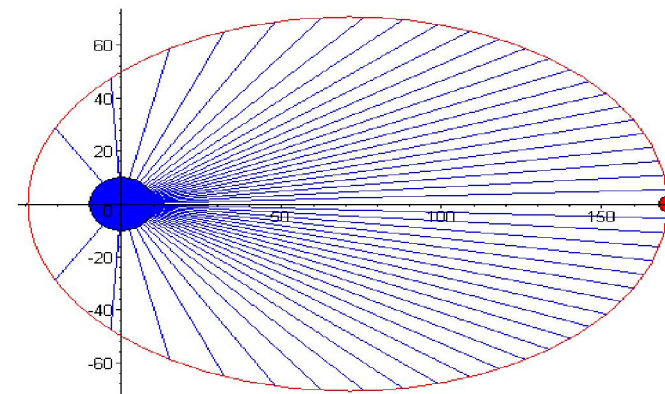
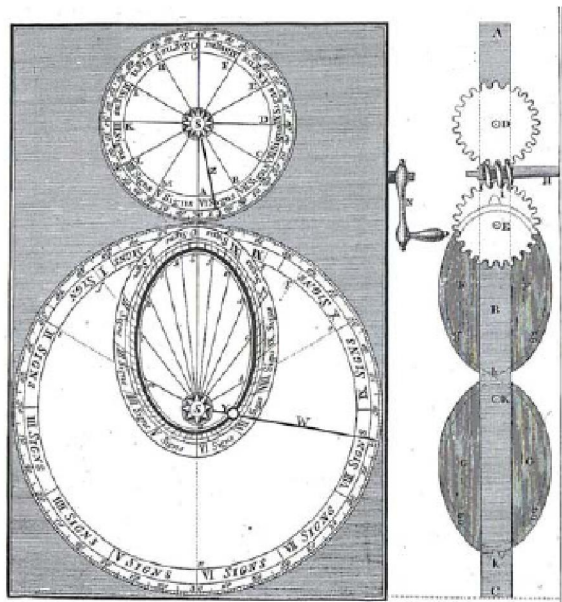


$$\int_0^\pi \eta d\phi = 2\pi$$

Mechanizmus mozgásanimáció

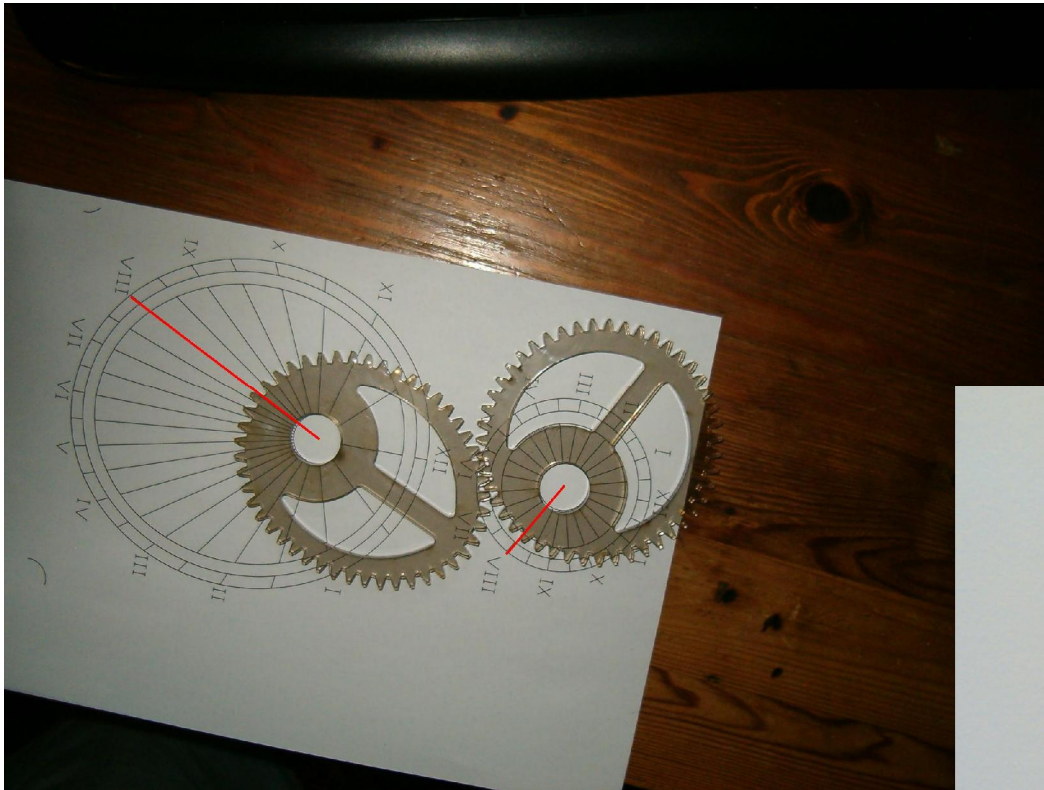


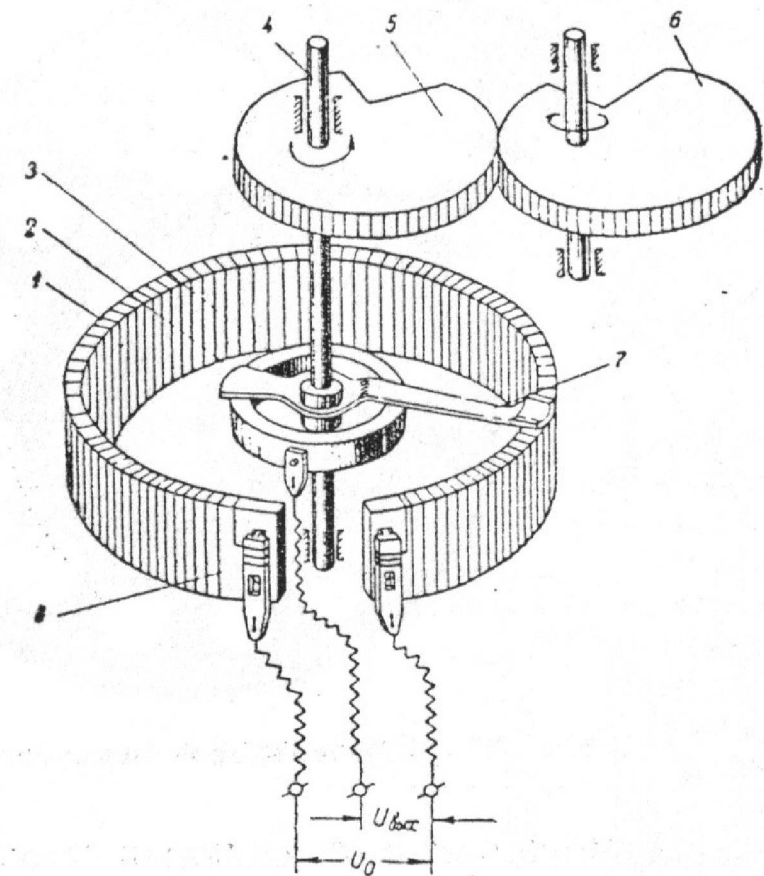
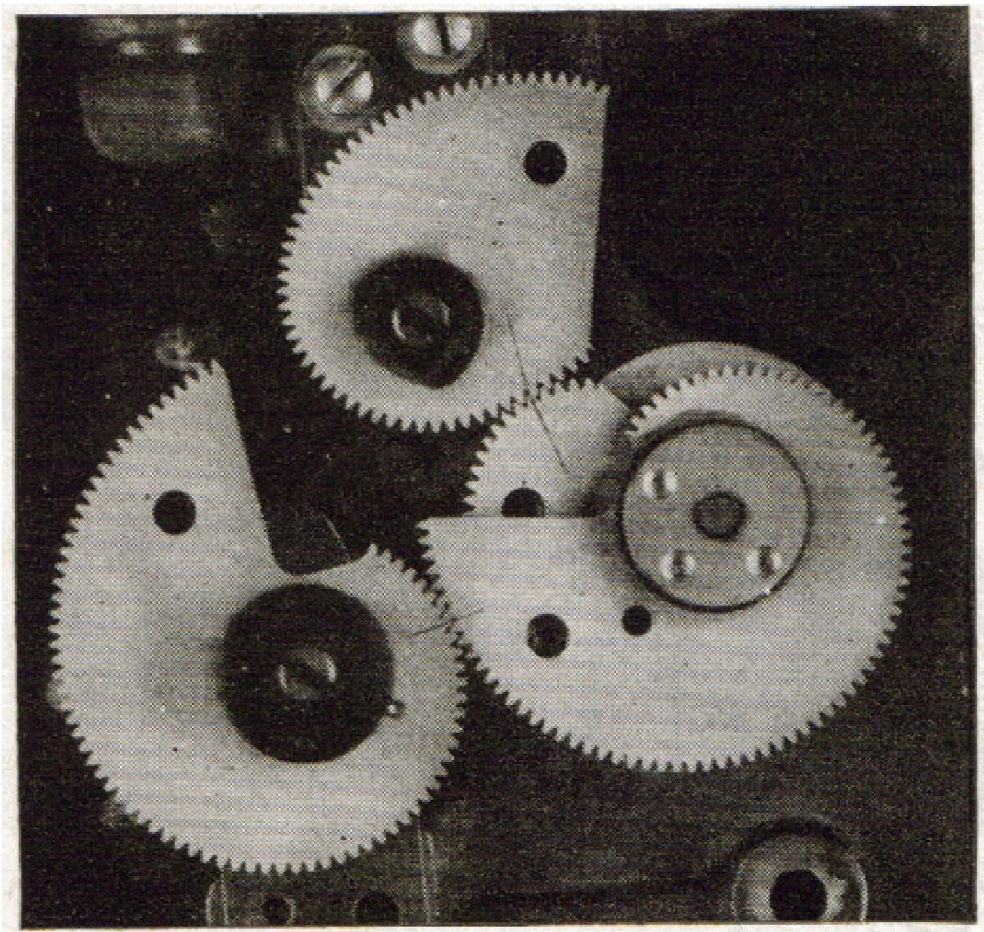
John Teophilus Desagulier (1683-1744) **cometarium mechanizmus (1732)**



**„Vitam et sanguinem, sed avenam non!”
Pozsony, 1741**

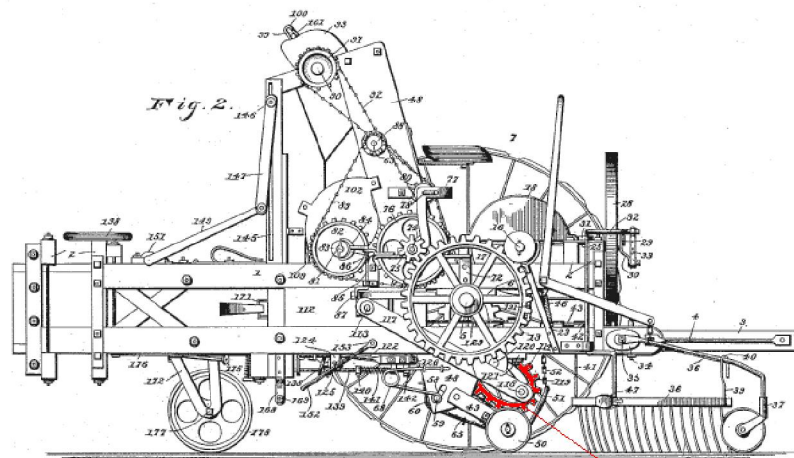
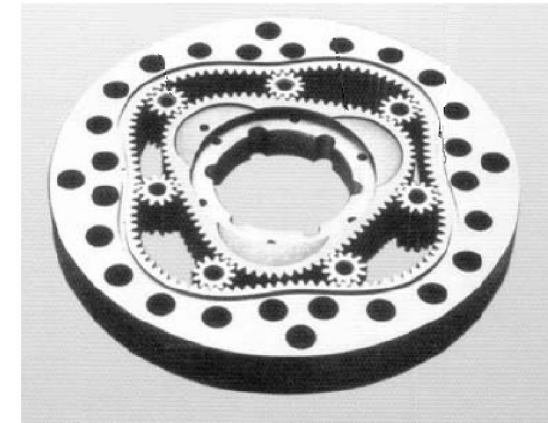
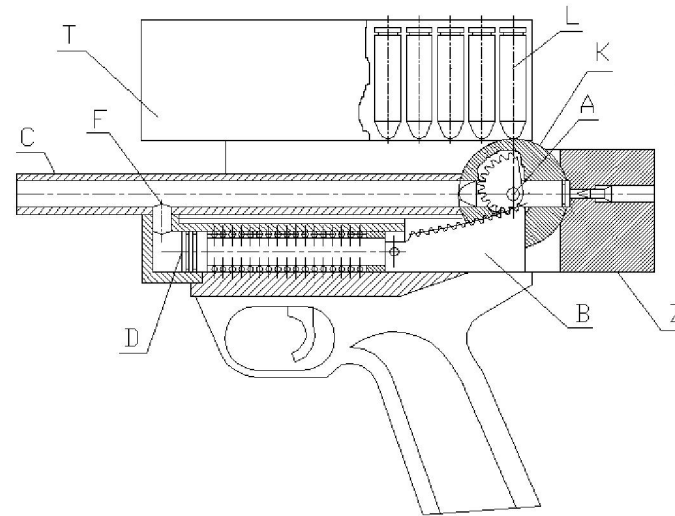
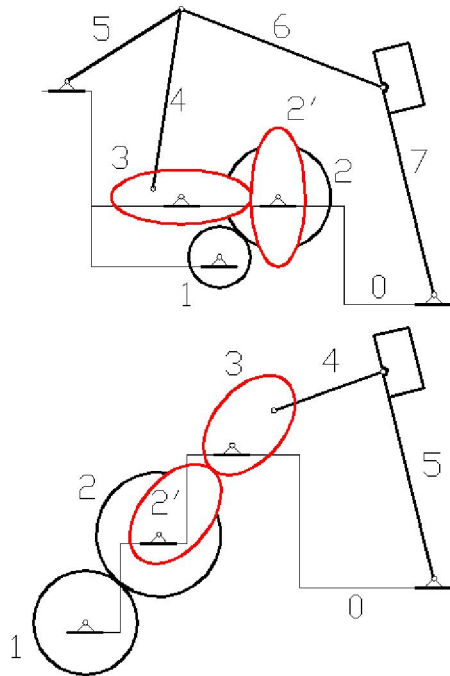




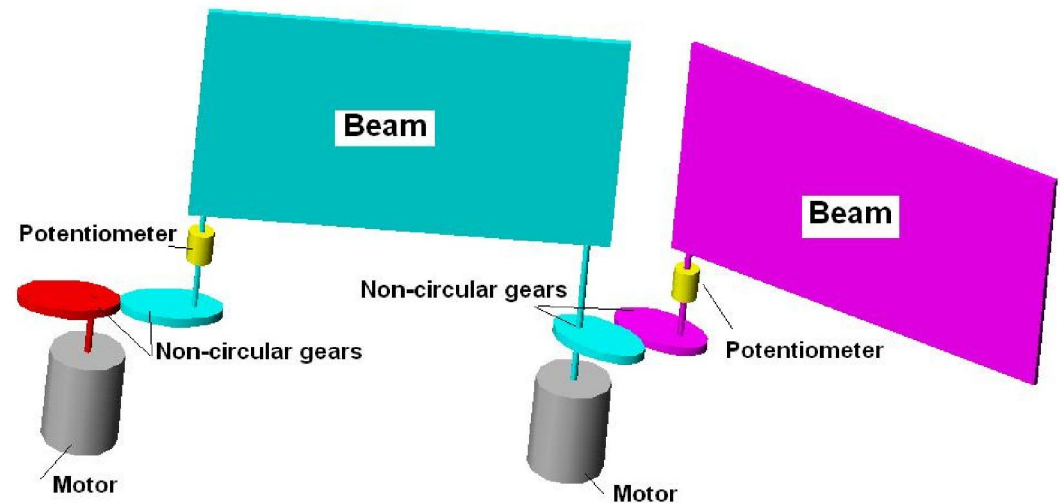


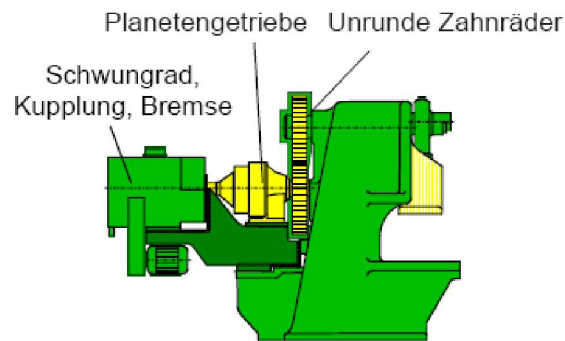
Nemlineáris potencióméter hajtás a II. világháború katonai elektronikájában

Alkalmazások a textil, agrár és nyomdaiparban, a hidraulikus, hadi és űrtechnikában



Elliptikus fogaskerék





Rückansicht



Quelle: Hindersmann

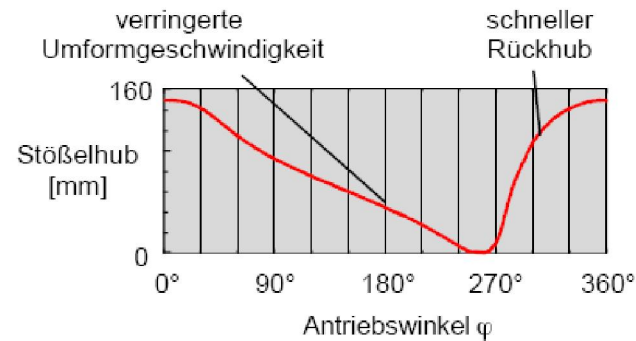
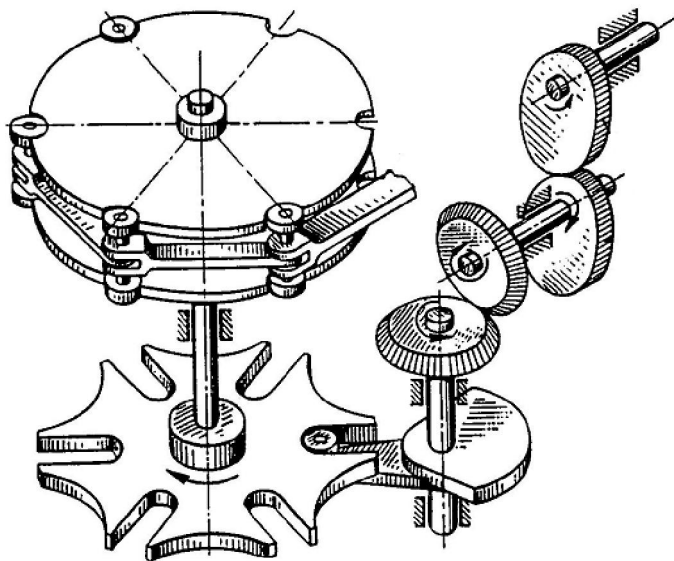


Abbildung 5: Am IFUM befindliche Prototyp-Presse [HIND-98]



Quelle: Helmerding

Pressendaten:
Exzenterpresse, Zweipunktantrieb
Nennkraft $F_N = 4000 \text{ kN}$
max. Drehzahl $n = 60 / \text{min}$

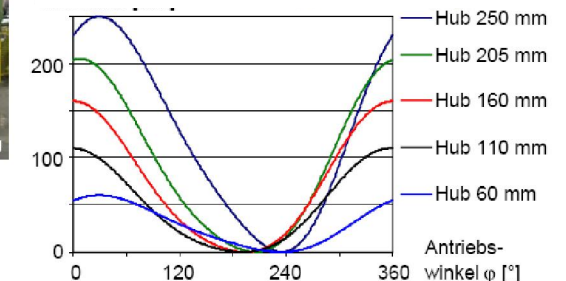
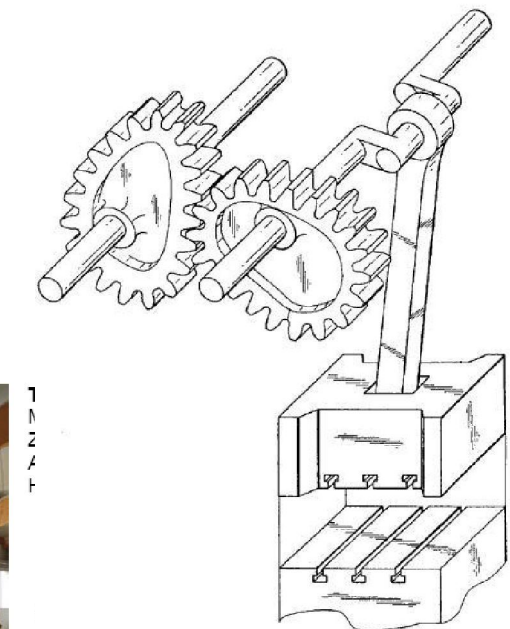
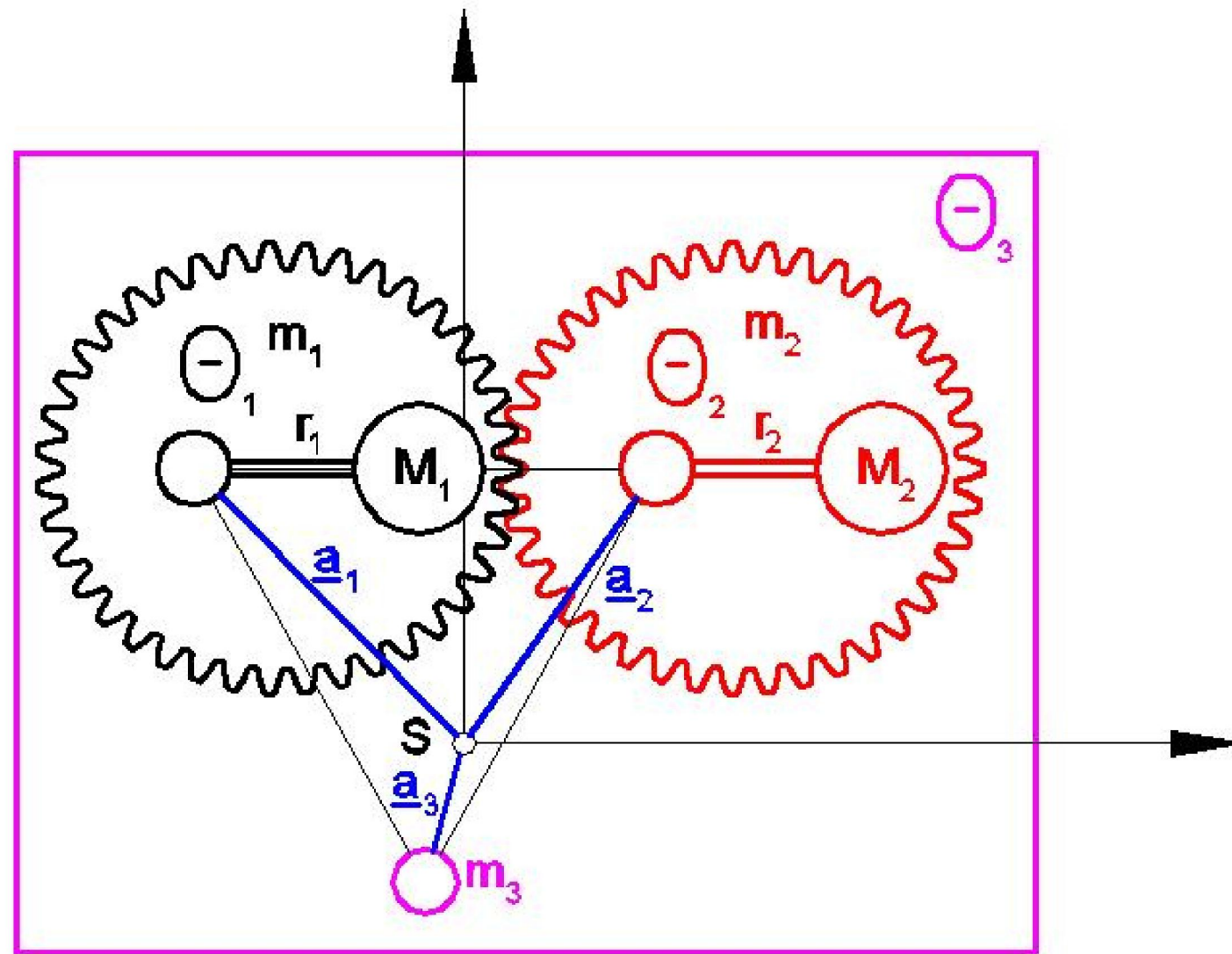
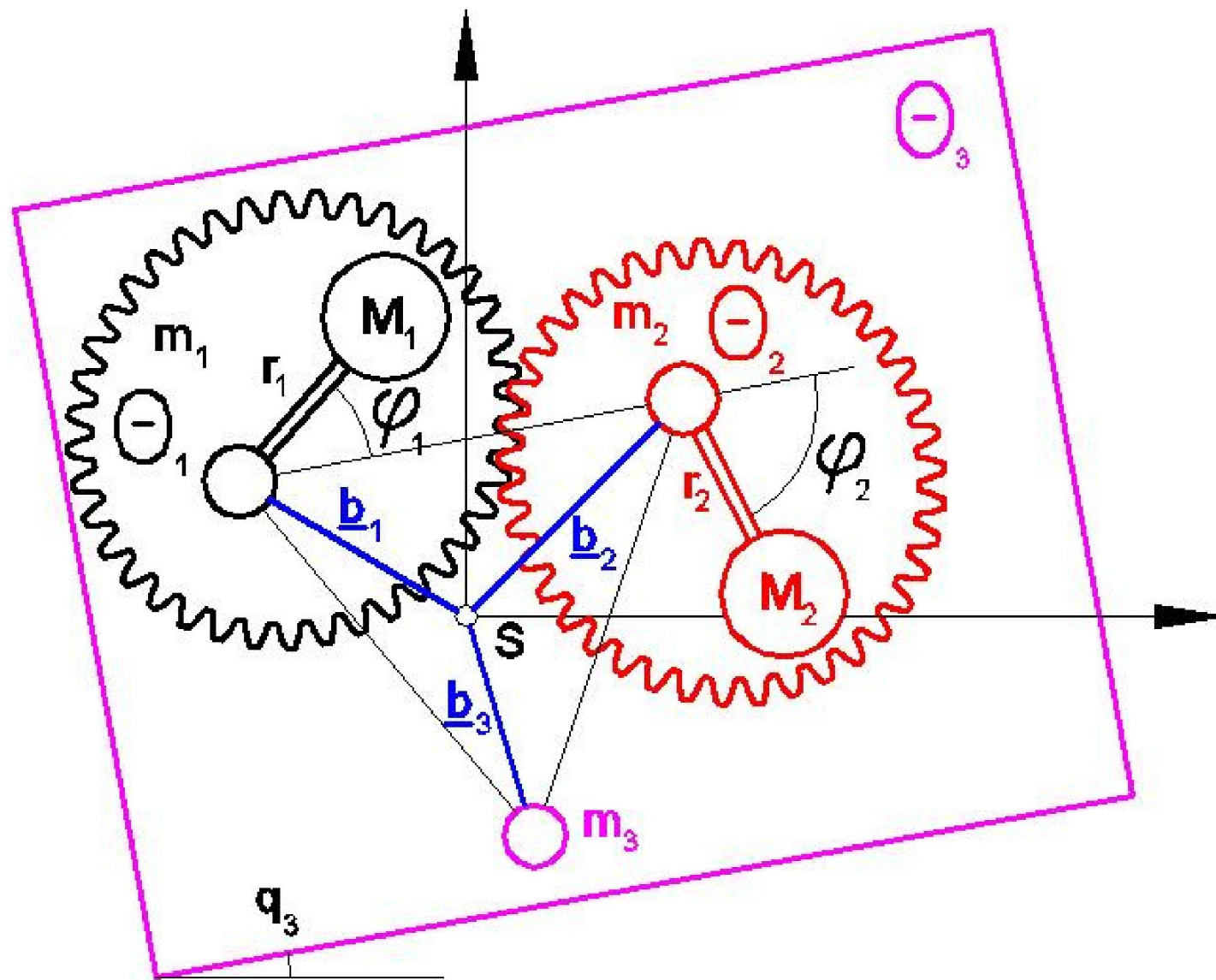
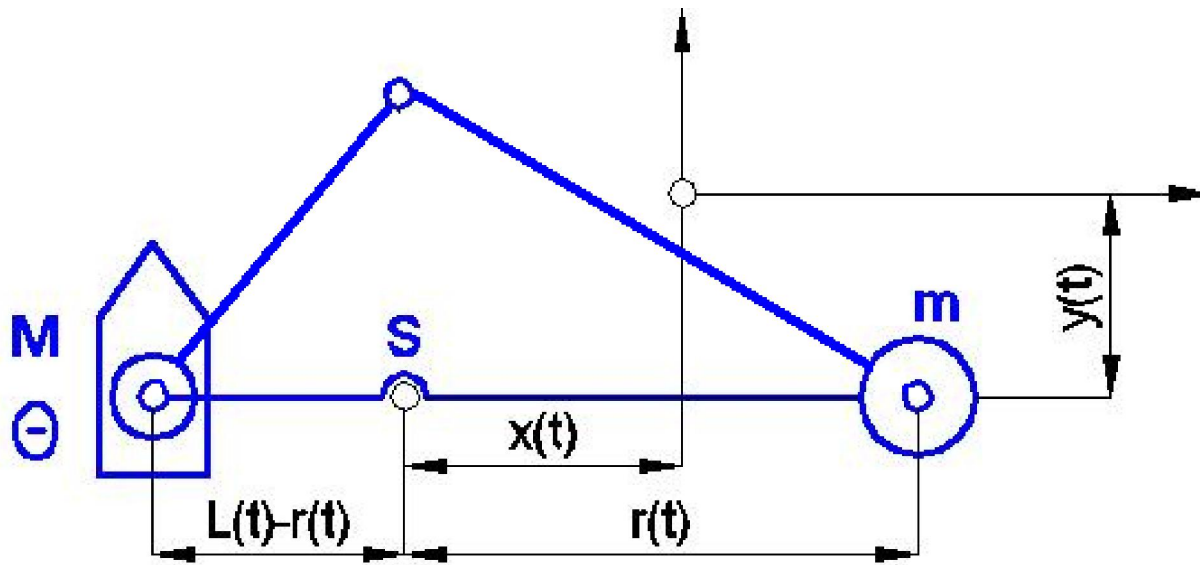


Abbildung 10: Realisierung einer Praxismaschine in Zusammenarbeit mit der Fa. Helmerding [SCHA-01]



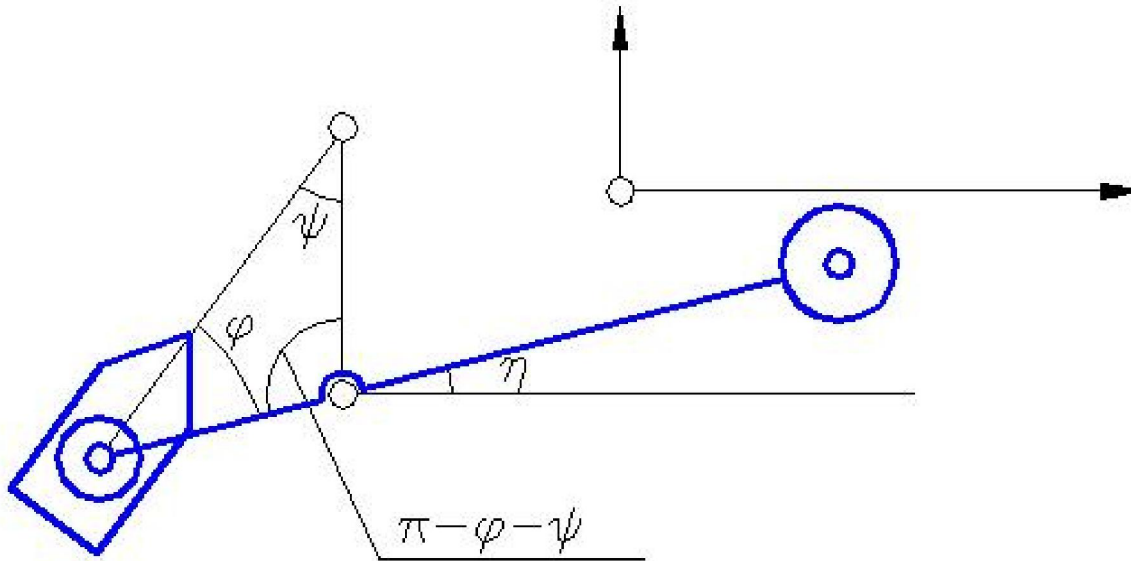


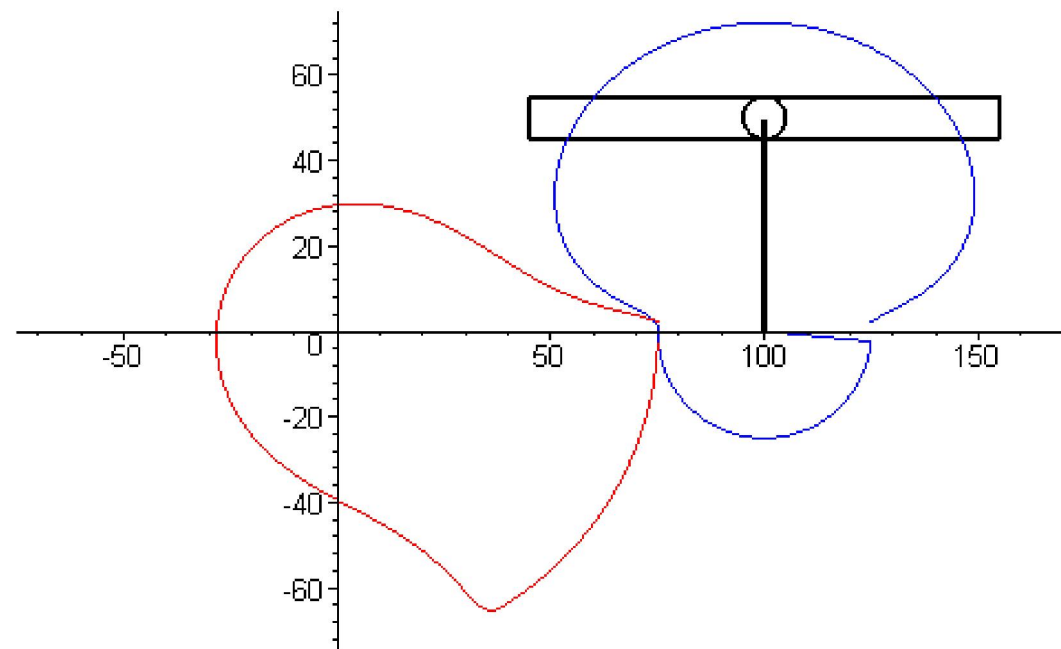


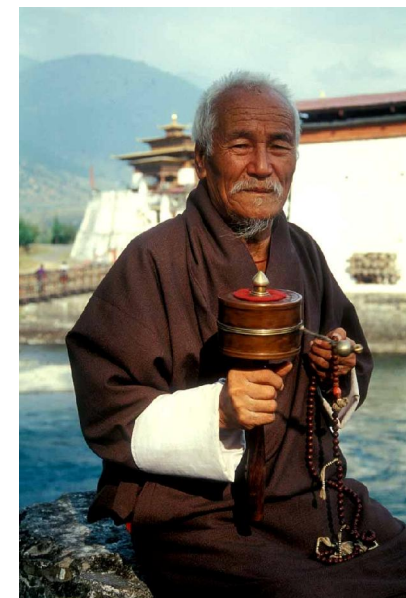
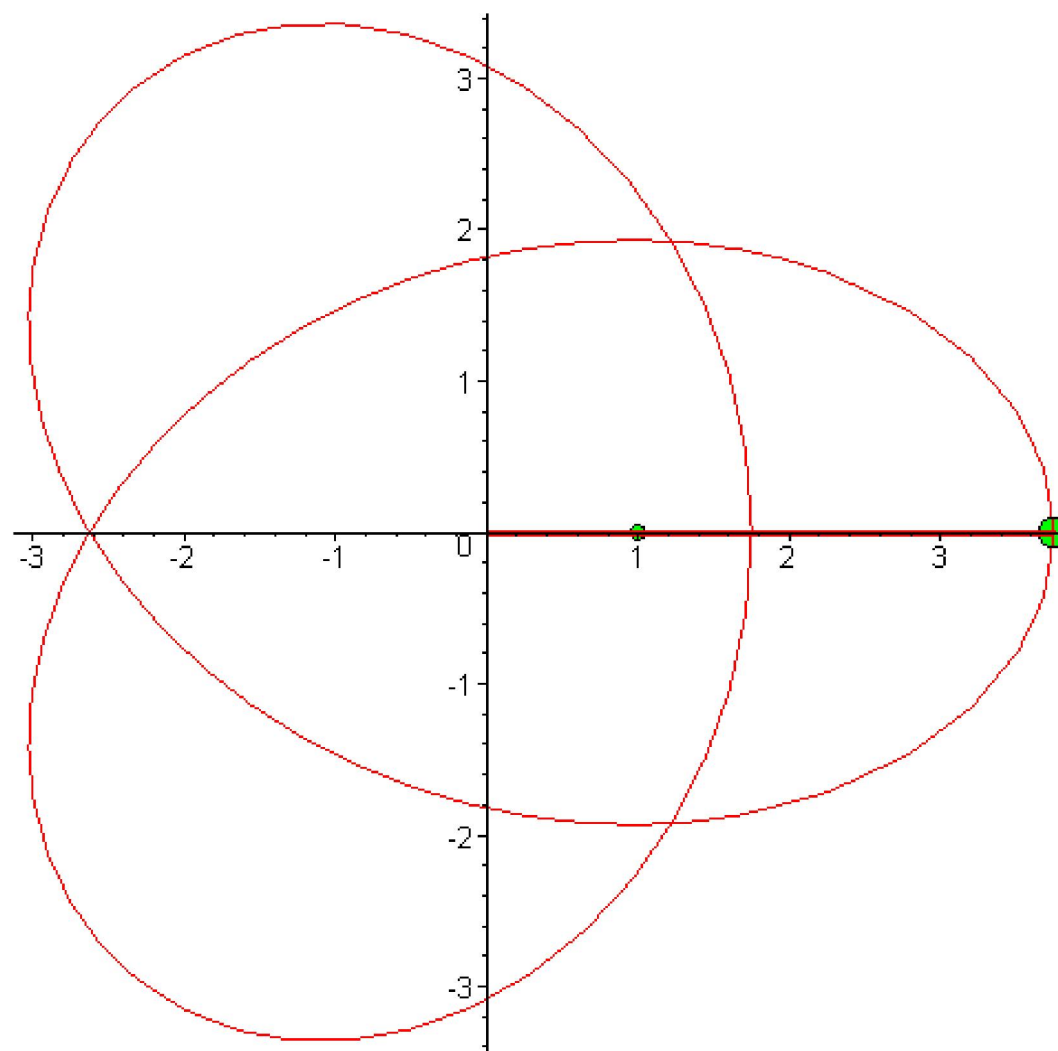
$$\eta(t) := \frac{\pi}{2} - \phi(t) - \psi(t)$$

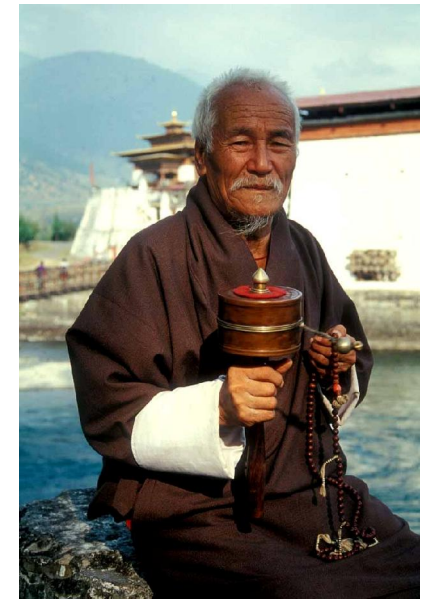
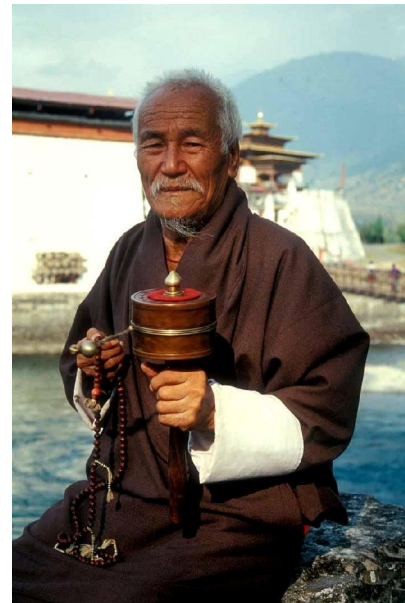
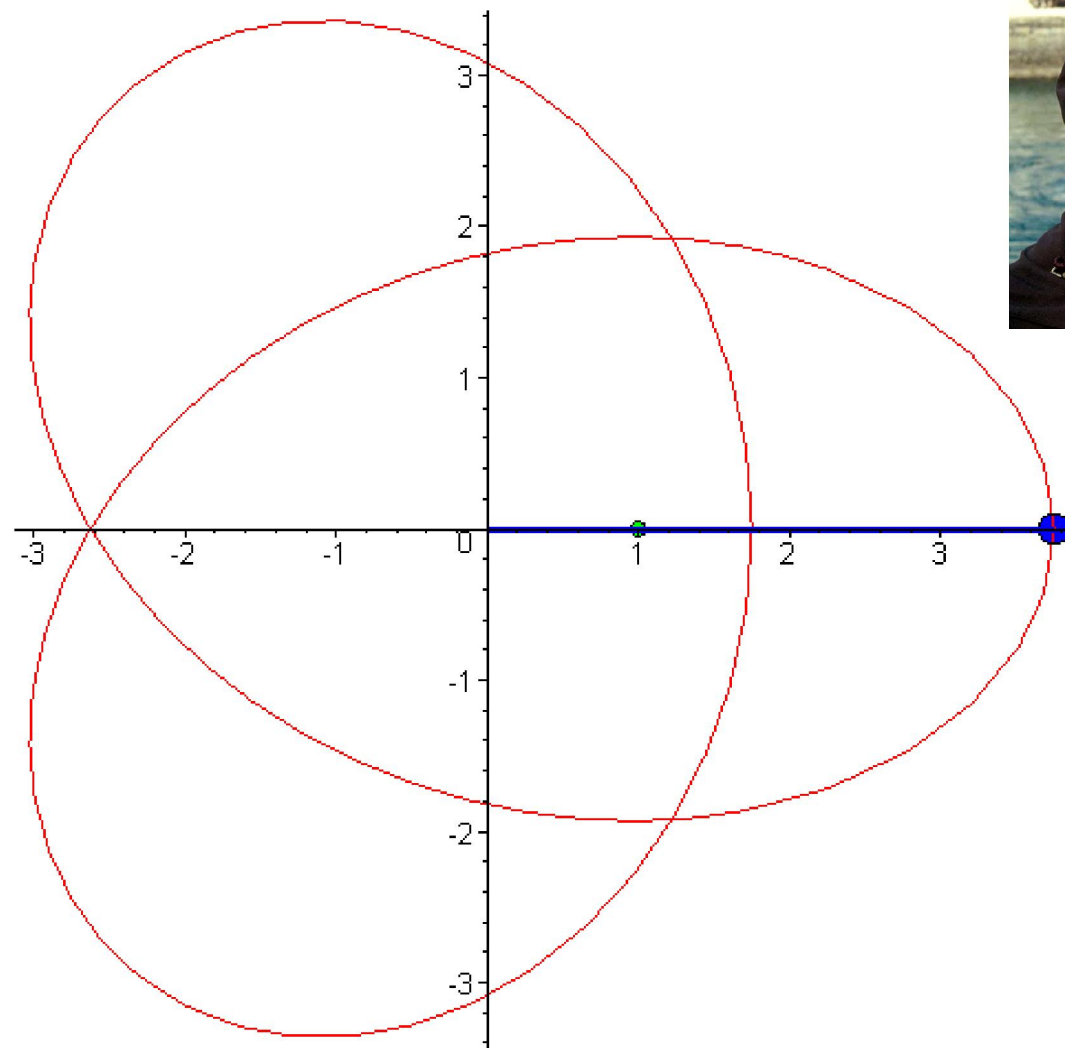
$$r(t) := \frac{M L(t)}{m + M}$$

$$\frac{d}{dt} \left(\frac{\partial E}{\partial \dot{q}_i} \right) - \frac{\partial E}{\partial q_i} = 0$$











***Köszönöm a megtisztelő
érdeklődést.***