

Didactic Path in Video Program “Heat Engines”

J.Trna

Masaryk University Brno
Czech Republic



Sócrates

GIREP 2008
INTERNATIONAL CONFERENCE
Physics Curriculum Design,
Development and Validation



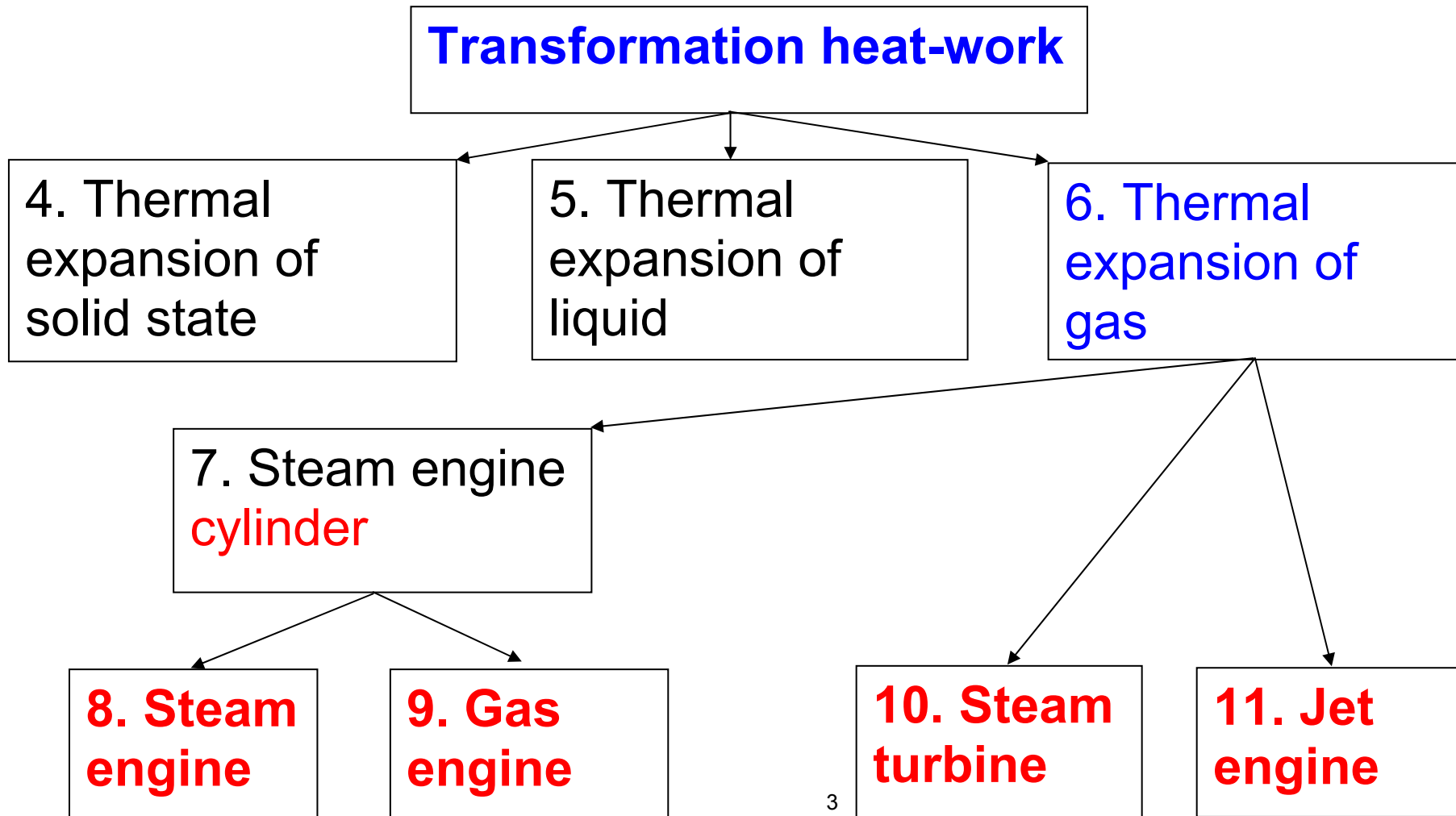
**University
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August, 2008



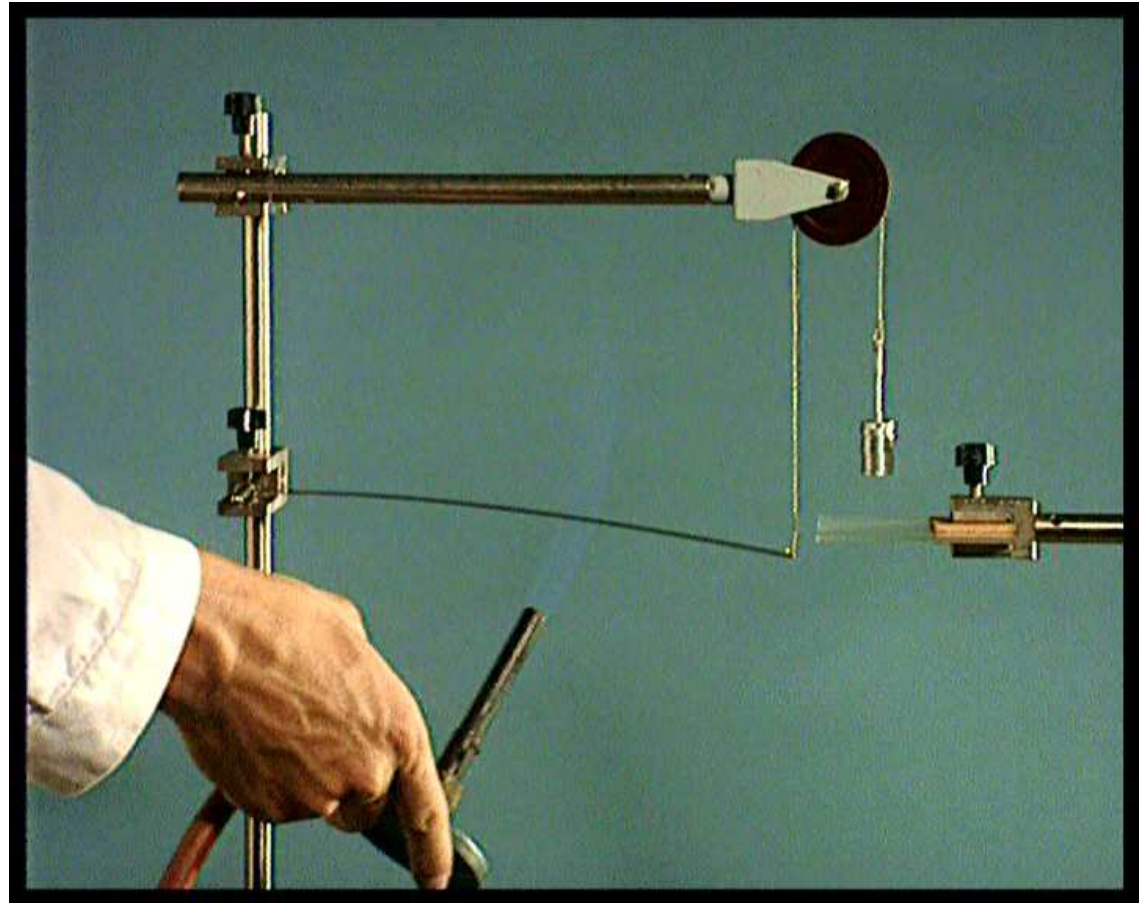
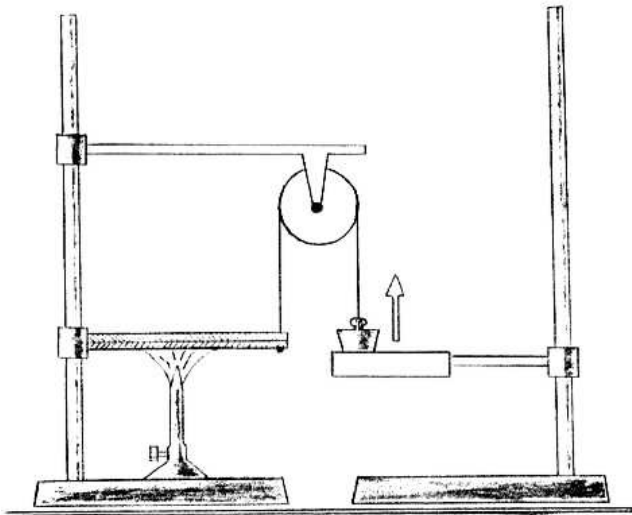
1. Video program

- **Teaching/learning multimedia tool**
- **Didactic (educational) structure of video program:**
 - not only set of separate clips
 - multi-purpose teaching/learning applications
 - didactic (educational, instructional) path

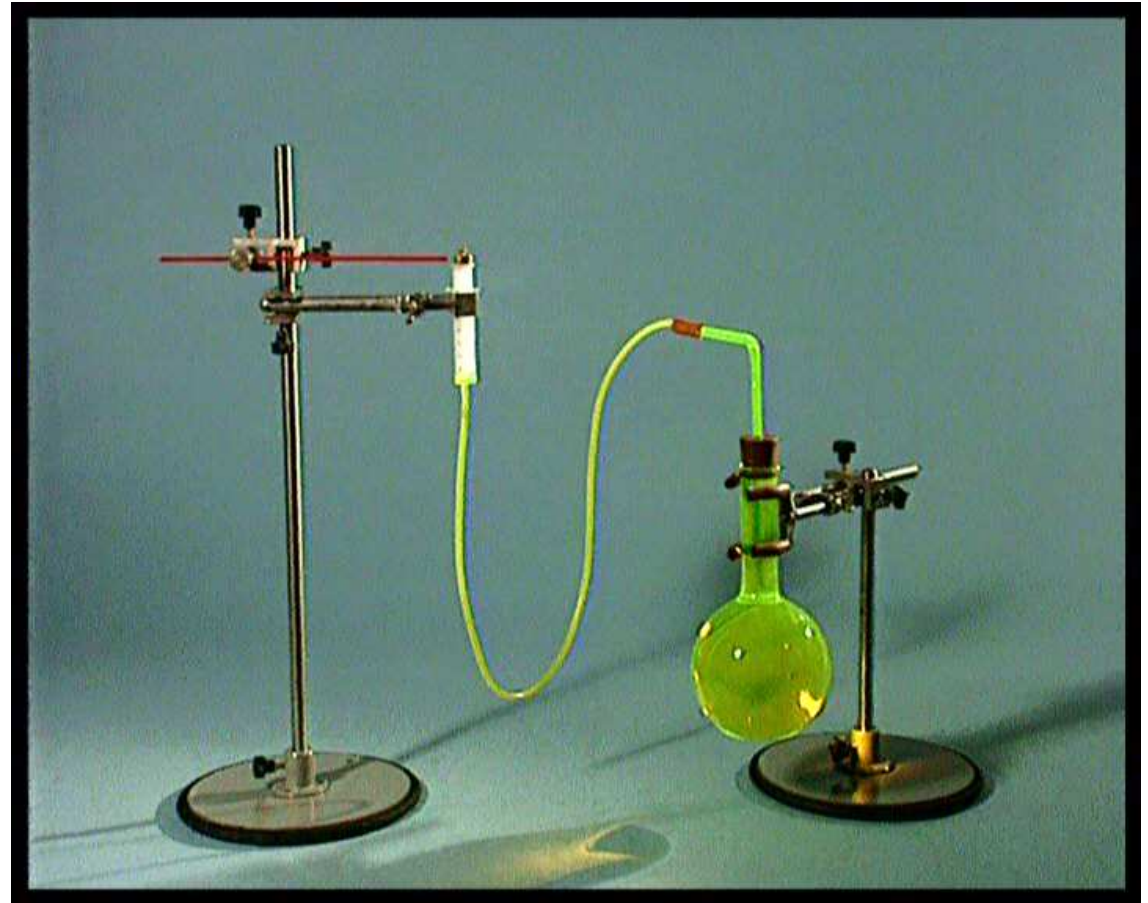
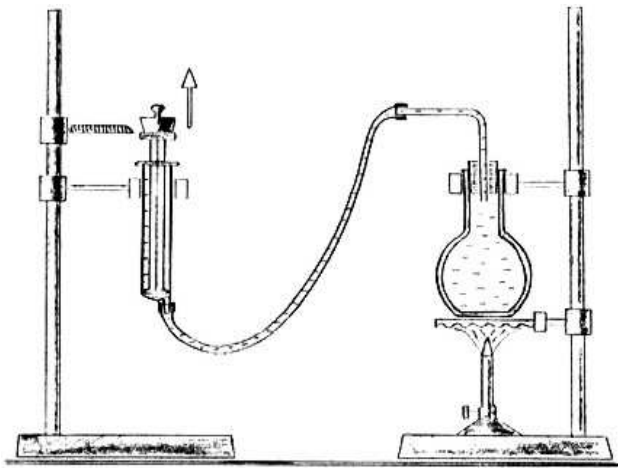
3. Didactic (instructional) path:



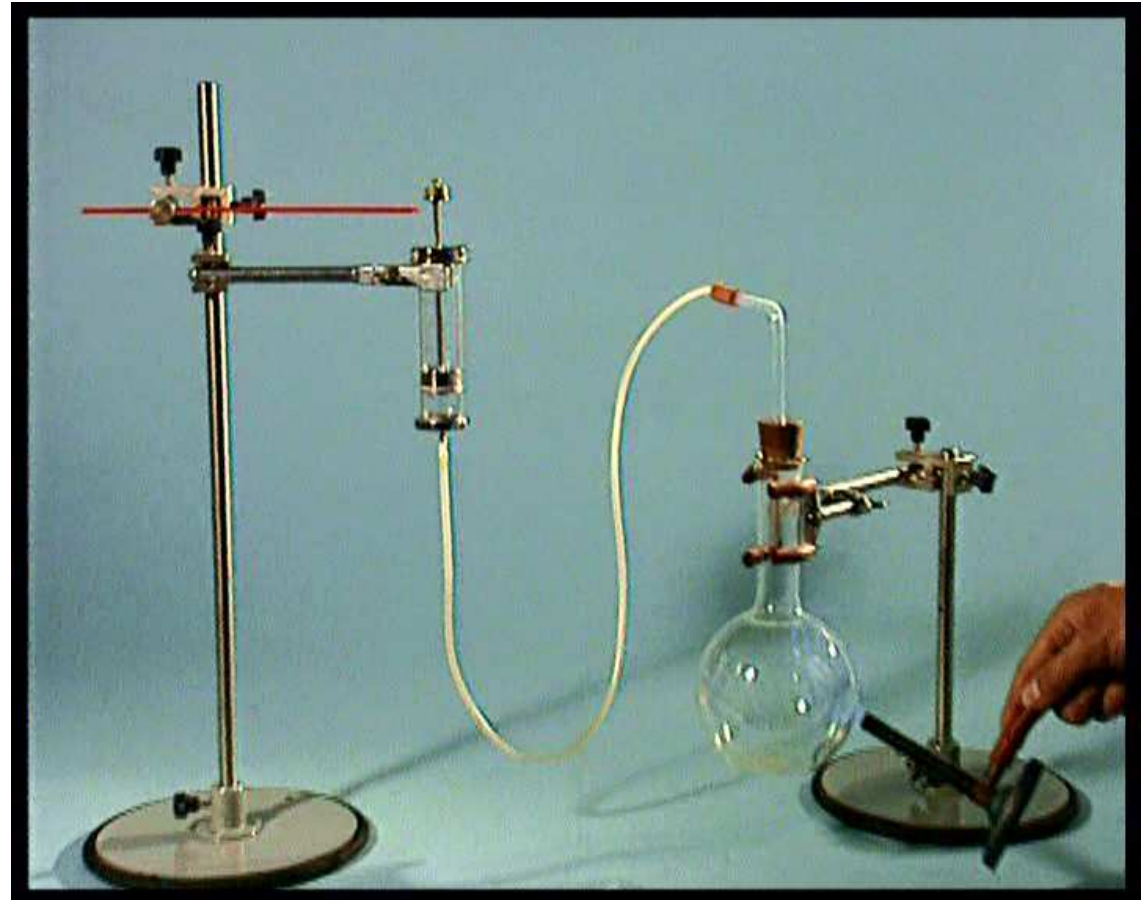
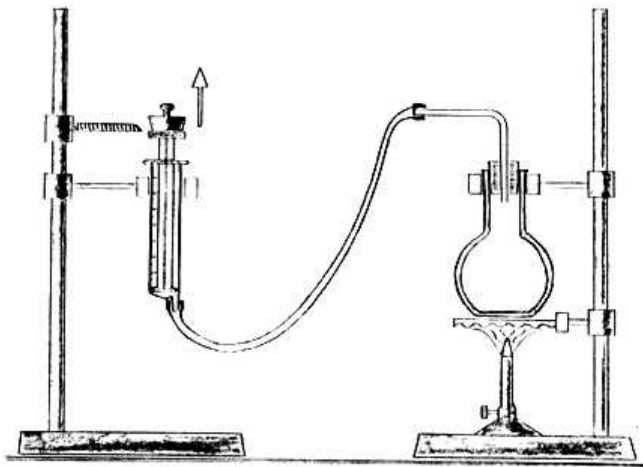
4. Thermal expansion of solid state:



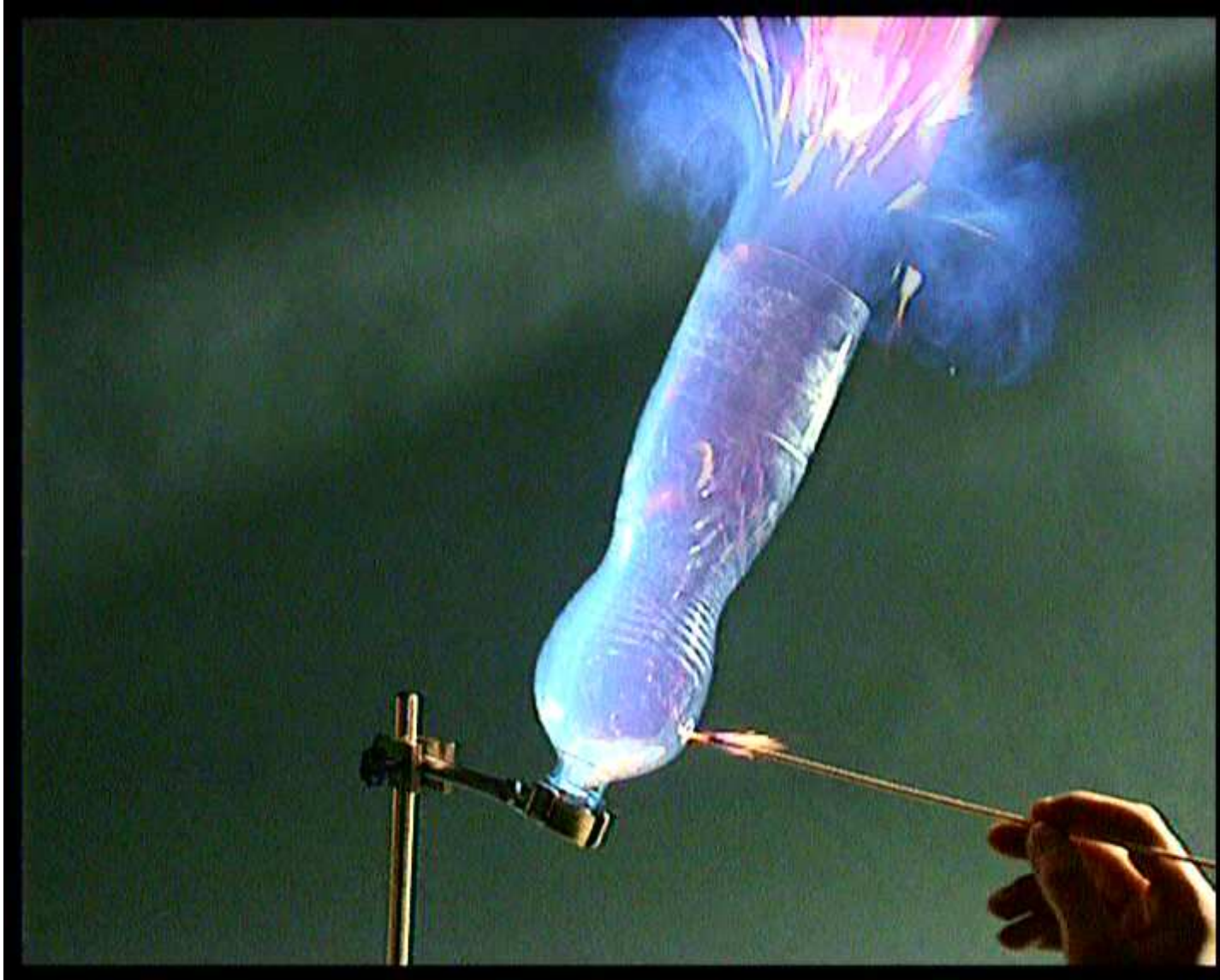
5. Thermal expansion of liquid:



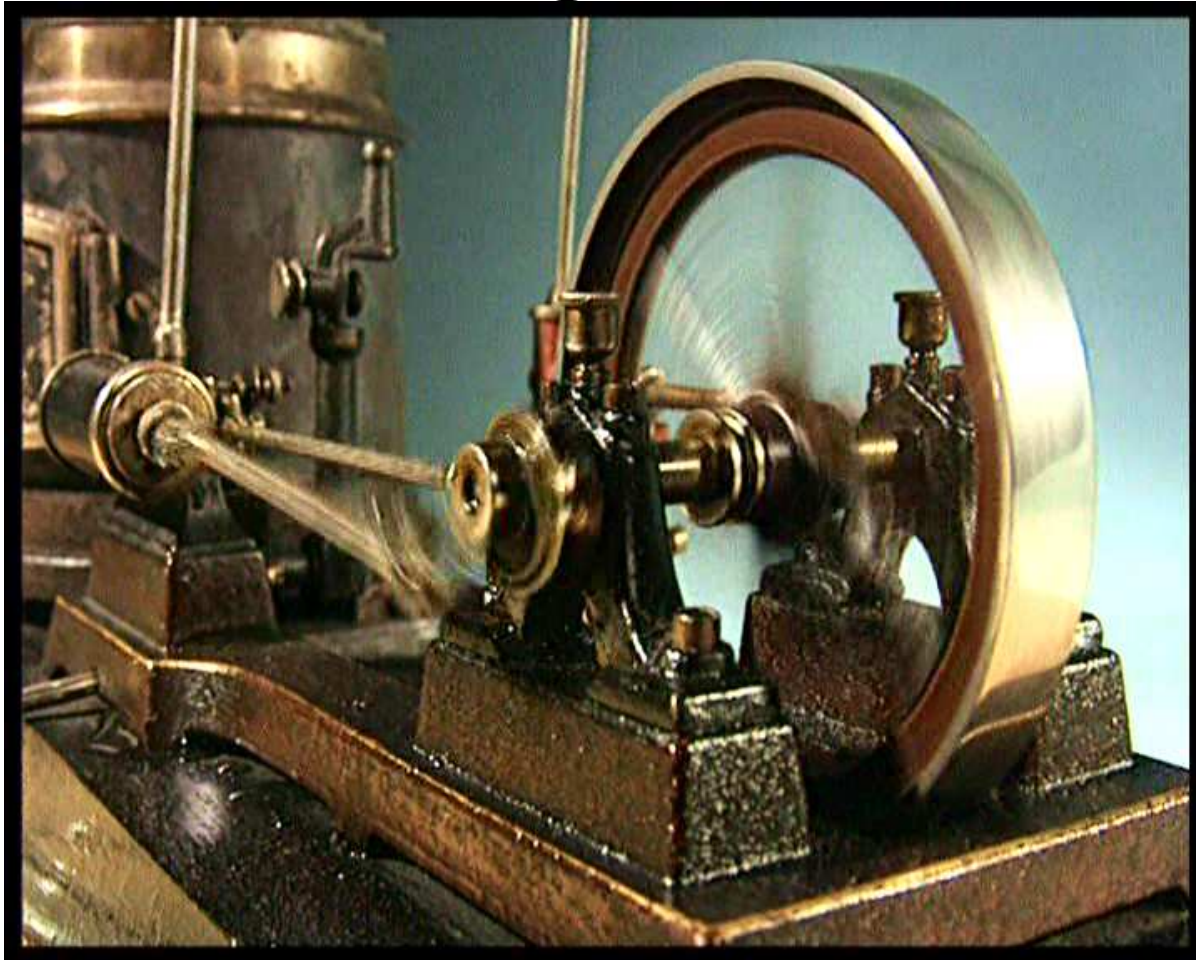
6. Thermal expansion of gas:



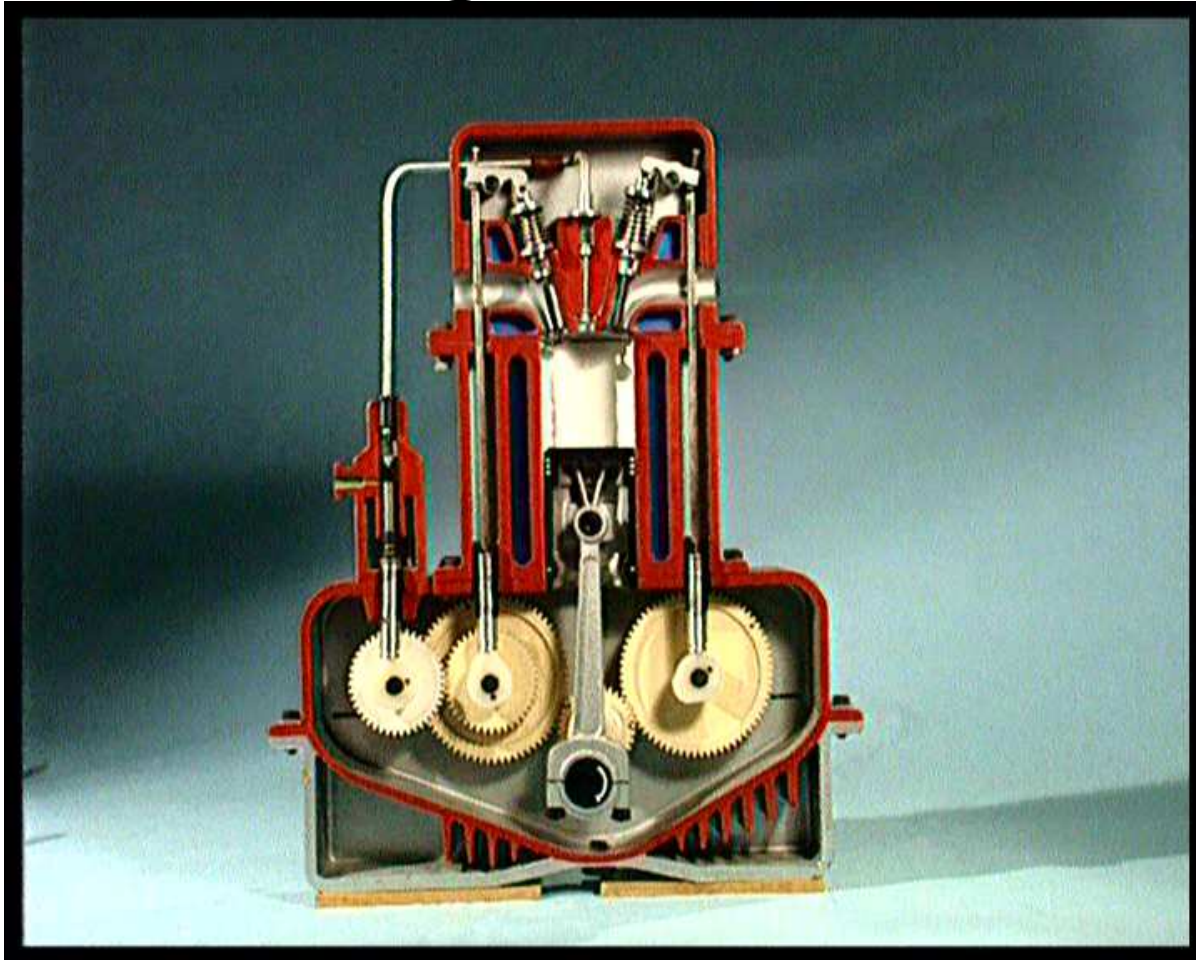
7. Steam engine cylinder



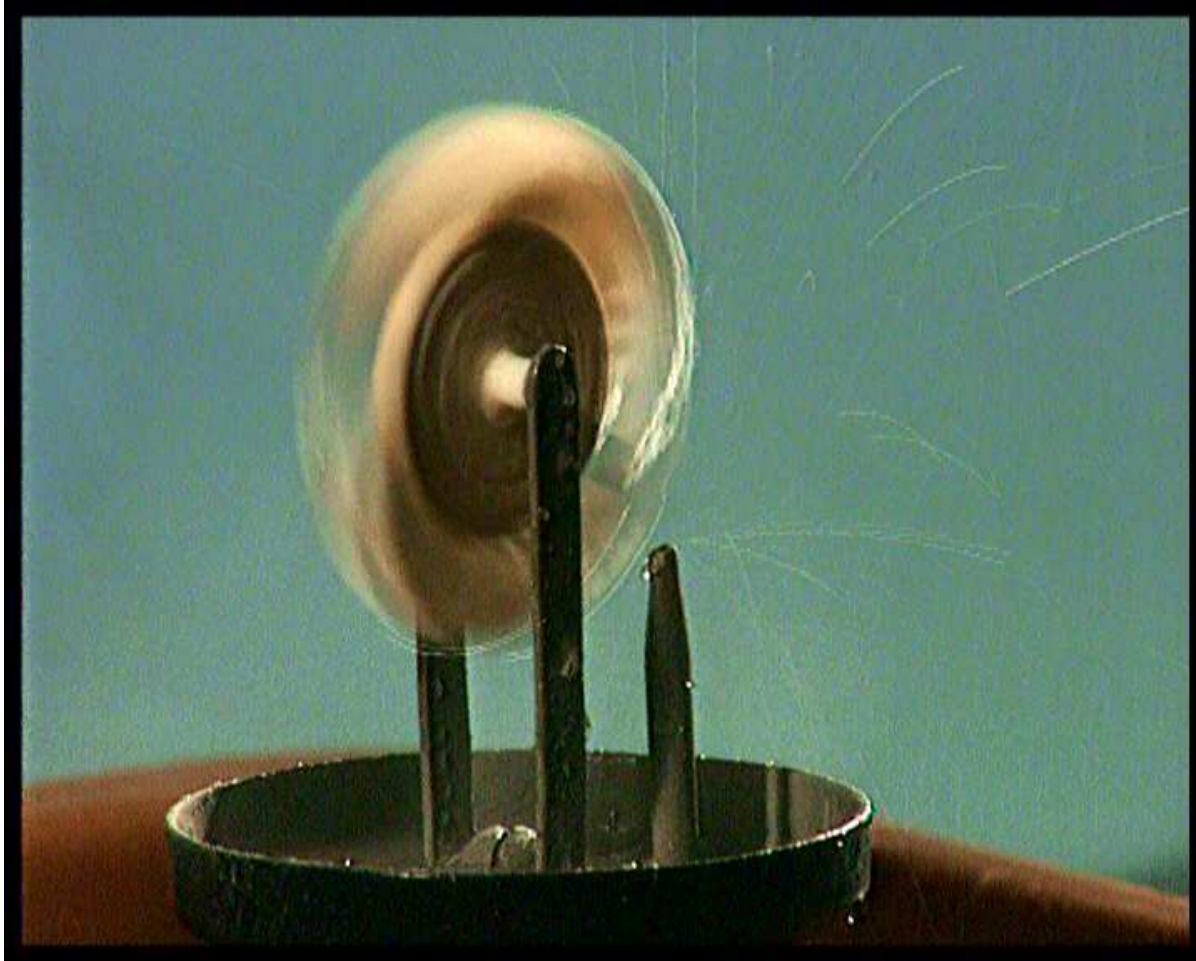
8. Steam engine



9. Gas engine



10. Steam turbine



11. Jet engine



The contribution was developed in the frame of the project SOCRATES, European Teachers Professional Development for Science Teaching in a Web-based Environment (EuSTD-web), 129455-CP-1-2006-1-PT.

Author:

Josef Trna

Department of Physics

Faculty of Education

Masaryk University

Porici 7

603 00 Brno

Czech Republic

Email: trna@ped.muni.cz