

# STEM Works

## Invenzione [inven-tsjone]

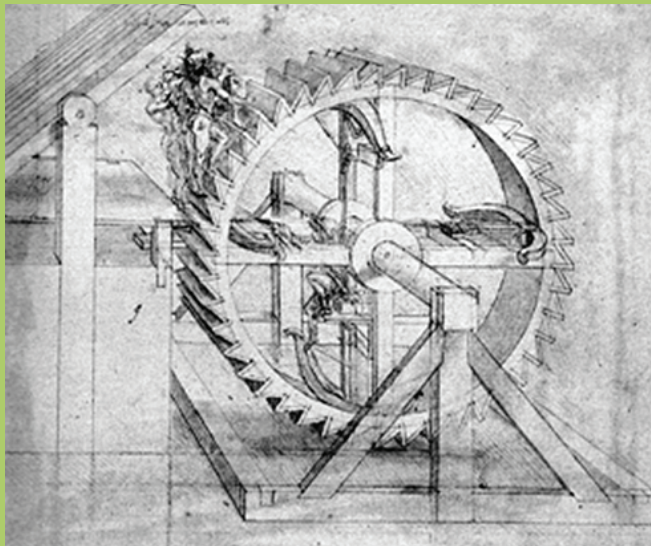
An Invenzione (invention) is a single device or a novel method, process or composition. It is a process within an overall engineering and product development process. It may be an improvement on a machine or product, or a new process for creating an object or a result.

**1597** Galileo introduced a geometric and military compass, which helped users perform arithmetic and geometric calculations, including taking square and cube roots.

**1800** Alessandro Volta reported the first electric battery, originally called an "artificial electric organ", based on a stack of alternating zinc and silver disks separated by brine soaked cloth.

**1805** Luigi Brugnatelli invents electroplating, a manufacturing technique used to create certain metal layers in MMICs/RFICs.

**1844** Innocenzo Manzetti conceives the idea of a telephone. Considered by many as the inventor of the telephone, he is believed to have made one in 1864, as an enhancement to an automaton he built in 1849.



**1871** Antonio Meucci files patent caveat No. 3335 in the U.S. Patent Office titled "Sound Telegraph", describing communication of voice between two people by wire.

**1895** Guglielmo Marconi proved the feasibility of radio communication sending and receiving the very first radio signal.

**1903** Luigi Bezzera invented the espresso machine to speed up the coffee making process and keep hard working engineers fueled up on caffeine for all night work sessions.

**1954** Propylene was first polymerized to a crystalline isotactic polymer by Giulio Natta. This pioneering discovery led to large-scale commercial production of isotactic polypropylene by the Italian firm Montecatini from 1957 onwards.

**1969** Federico Faggin produced the world's first commercial integrated circuit using Silicon Gate Technology with self aligned MOS transistors while working at Fairchild Semiconductor.

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