

## Illustrious Forerunners

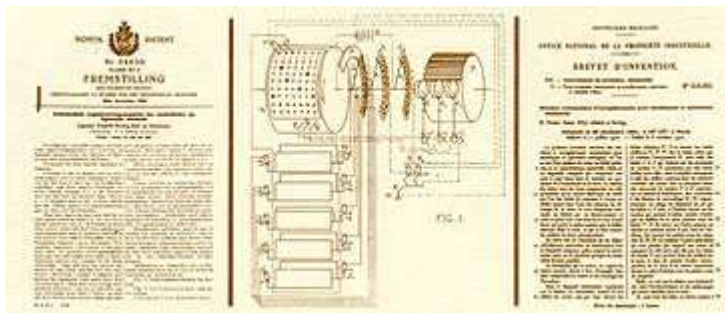
- 1641 Blaise Pascals adding machine.
- 1806 Punched card loom invented by Joseph-Marie Jacquard.
- 1837 Charles Babbage's Analytical Engine.
- 1884 Hermann Hollerith's punched card statistics machine.
- 1909 James Powers' semi-automatic tabulating machine with printing counters.
- 1914 H. Hollerith's rack printer.
- 1921 Fr. R. Bull's electromechanical statistics machine with card selector.
- 1924 First work by Fr. R. Bull on a printing device.

## 1919 - 1925 Fredrik Rosing Bull, Pioneer of European computing

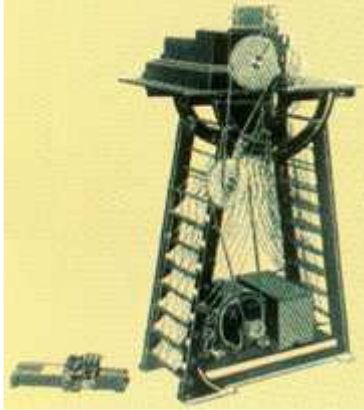


The Norwegian engineer Fredrik Rosing Bull (1882-1925) is the first European to create a punched card statistics machine.

Fredrik R. Bull applies for a patent for his first statistical registering and sorting punch-card machine in Norway on July 31, 1919. The first machine is built, and installed at Storebrand in August 1921.



This first recording/sorting machine is shipped in 1921 to the Norwegian insurance company Storebrand and, very soon, the trade press is extolling its benefits.

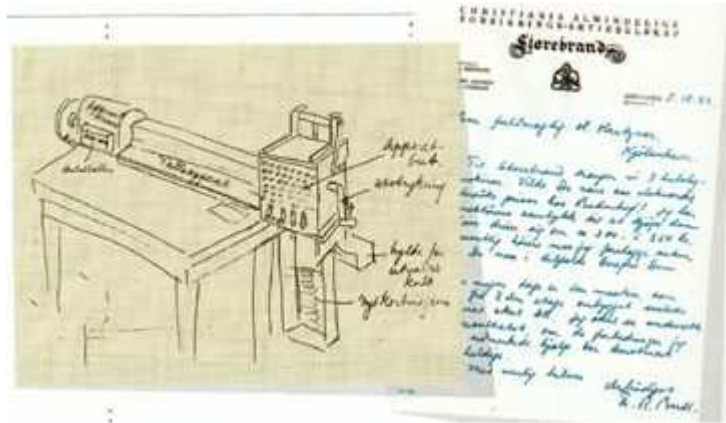


1921. Fr. R. Bull's card selector device.



→ 1926 - 1935

Dialog from 1922-1925 between Bull and his first customer Henrik Hartzner of the Danish insurance company Hafnia leads Fr. R. Bull to separate the sorting and recording functions onto two different machines.



OKA, run by Reidar Knutsen, takes over marketing and issues a product catalog in 1923.

