

A. C. KREBS steering systems

"I had imagined this arrangement to avoid the brutal shocks that the gears undergo when changing gear, a solution that seemed barbaric to me"

1896 A. C. KREBS system car patent:

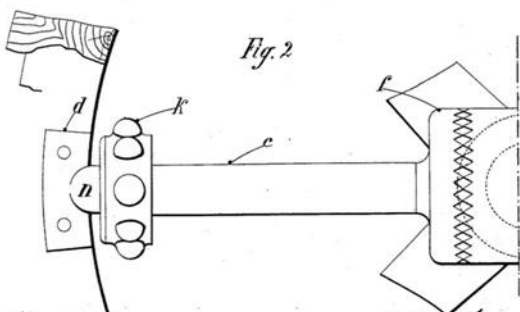
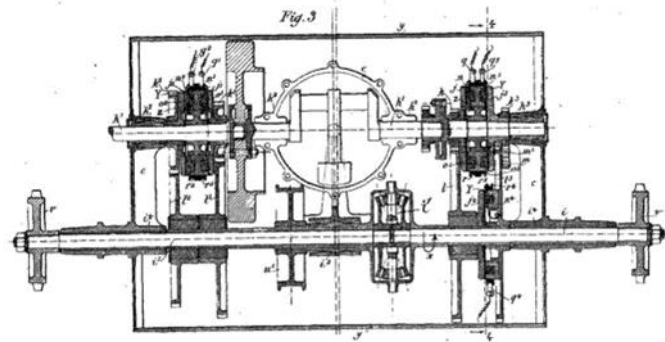
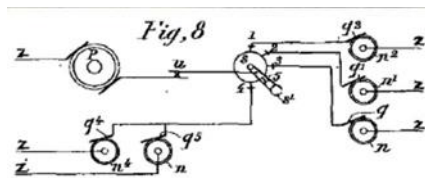
"For the purpose of operating the electro-magnetic clutch, I employ a commutator arranged preferably under the handle bar and adapted to be operated in such a manner as to establish, according to five different positions, the electrical connections that correspond respectively to: rest ; forward movement at low speed ; forward movement at medium high speed ; and movement in the rearward direction." ([GB189619774A](#))

NB: Emile Levassor [acquired](#) the license of this electromagnetic gearbox in 1896 and Panhard & Levassor built it at least until 1903.

See : [other photos](#)

1896 A. C. KREBS Patent:

The electromagnetic gearbox of the KREBS system car patent



Witnesses:
James L. Norris,
Albert C. Smith

Inventor:
Arthur Krebs,
By James L. Norris,
Att'y.

1902 - A. C. KREBS Patent:

"Apparatus for [controlling the speed of motor-car engines.](#)"
(US757815A)



1902 - Panhard & Levassor catalog