



Simon von stamplrer

Simon Ritter von Stampfer (born October 26, 1792 (according to other sources 1790), in Windisch-Mattraai, Archbishopric of Salzburg today called Matrei in Osttirol, Tyrol – died November 10, 1864 in Vienna) was an Austrian mathematician, surveyor and inventor. His most famous invention is that of the stroboscopic disk which has a claim to be the first device to show moving images. Almost simultaneously similar devices were produced independently in Belgium



Joseph Plateau

Joseph Plateau of Belgium is generally credited with the invention of the stroboscope in 1832, when he used a disc with radial slits which he turned while viewing images on a separate rotating wheel. Plateau called his device the "Phenakistoscope".



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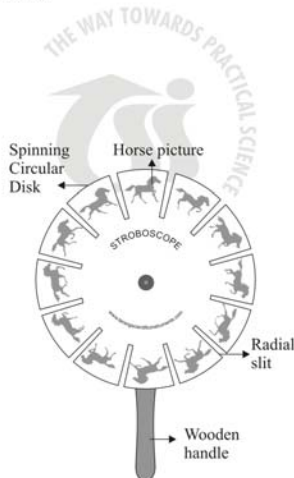
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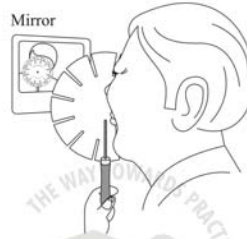
First device to show moving images

Assembly : Consists of circular disc of diameter 8 inch made out of 3 mm MDF sheet. It has 12 equidistant radial slits around its circumference. In between each slit a series of horse pictures is printed corresponding to the frames of the animation. This circular disk is attached to a vertical MS rod with wooden handle.



To do and observe.

Step 1 : Hold the disc in front of a mirror such that you will see the reflected image of the horses in the mirror, (as shown in the diagram)



Step 2 : Now spin the disc using free hand and look through moving slits at the disc's reflection in the mirror.



You will see picture of a running horse.

What is going on ?

The stroboscope uses the principle of persistence of vision to create an illusion in this case.

The image remains on human retina for 1/16th of a second. If another image casts on the retina within this period, both images get superimposed and we see the combined image of the two. Hence the result.

Application : The projection of stroboscopic photographs, creating the illusion of motion eventually lead to the development of cinema.

