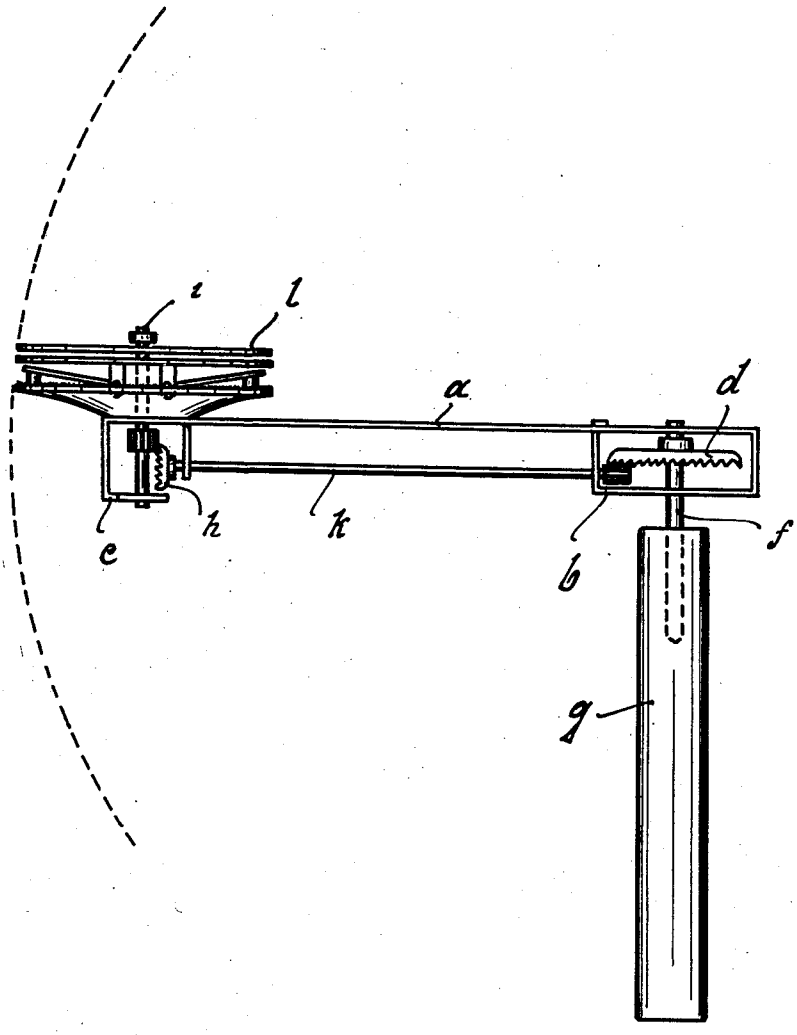
Dec. 30, 1930. C. ARNOLD 1,787,349

SPARK TOY

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SPARK TOY

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Rattle-like devices to be swung around a pivot point have become known, in which spark producing devices are swung along in a circle. According to this invention the effect, which such a rotatable spark producing device exerts upon the eye, has to be increased by lengthening its radius of rotation by the interposition of an axle gyrating around the handle. From other rattles it has become known, to impart by a mitre wheel gearing rotating movement to such an axle at its end facing the handle.

According to this invention the rotation of this rattle like intermediate axle swung around in a circle is transmitted by a second mitre wheel gearing upon the axle of the spark producing device.

An embodiment of the invention is illustrated by way of example in the only figure of the accompanying drawing in side elevation.

The spark producing device 1 is carried by a frame *a* which, at its rear side and at its front side, is shaped to form housings *b* and *c*. In the housing *b* a mitre wheel gearing *d* with axle *f* is rotatably arranged. The axle *f* is inserted in a handle *g*, to be held by the child. The housing *e* contains also a mitre wheel gearing *h*. The two gearings are connected the one with the other by means of a shaft *k*.

Owing to the movement of the handle *g* known from rattles the shaft *k* is rotated by the mitre wheel gearing *d*, and this shaft *k* rotates through the second mitre wheel gearing *h* the axle *i* of the spark producing device, the radius of rotation of which is the greater the longer the shaft *k* is made.

I claim:—

A spark producing device rotatably mounted on a handle said spark-producing device comprising in combination an axle, a mitre wheel gearing connected to said axle to rotate the same, a mitre wheel gearing connected with said handle, and a shaft connecting the mitre wheel gearing of said spark producing device and the mitre wheel gearing of said handle and adapted to rotate when the spark producing device is rotated around said handle and to cause the spark producing device to rotate on its axle.

In testimony whereof I affix my signature.

CARL ARNOLD.