Fig.1. Fig 2. Fig. 3. D 🛛 🖉 🖉 66506

William Reed Green, Denver, Colorado, assignee of Augustus Howard, San Francisco, California, U.S.A., 7th March, 1900; 6 years. (Filed 17th August, 1899.)

Claim,--1st. A gear wheel having on its working face between the centre and periphery alternate ridges and depressions forming gear teeth on curves extending concentrically from the periphery inward, and the sides of which teeth are at less than a right angle to the plane of the wheel face, substantially as set forth. 2nd. A gear wheel having on its extended working face between the centre and periphery alternate ridges and depressions forming gear teeth on curves extending eccentrically from the periphery inward, and the sides of which teeth are at less than a right angle to the plane of the wheel face and adapted to gear effectively with pinions of different diameters and with different numbers of teeth, substantially as set forth. 3rd. A gear wheel having on its extended face between the centre and periphery a series of curved bevelled teeth, each extend-ing from the periphery inward and adapted to effectively engage pinions arranged at different distances from the centre and on shafts arranged at different angles and positions, substantially as set forth. Ath. A gear consisting of a wheel having an extended face with bevelled curved teeth between the centre and the periphery, in combination with a pinion adapted to effectively engage and operate with said teeth when adjusted to different positions between the centre and periphery, substantially as set forth.

## No. 66,507. Mechanical Movement.

## (Mouvement mécanique.)

The Brown Straw Binder Co., assignee of Braselton T. Brown, al of Indianapolis, Indiana, U.S.A., 7th March, 1900; 6 years (Filed 19th August, 1899.)

Claim.-1st. A mechanical movement, comprising a main driving gear, a series of sectional gears surrounding the same, a slidable section monnted in ways in each gear which engage at intervals with the main gear, a stud attached on the rear thereof, a cam fixed to the framework whereby the slidable sections are actuated, sub-stantially as described and for the purposes specified. 2nd. A mechanical movement, comprising a main driving gear, a series of sectional gears surrounding the same, a stud 12 attached to the surface of each gear, a spring 13 secured to the framework at one end, and having a notch adapted to engage with said stud, locking and determining the length of rotation of the gear, substantially as shown and described 3rd. A mechanical movement, comprising a main driving gears, a series of sectional gears surrounding the same, each of which has a slidable section mounted therein, each section terminating at its outer end into a spindle, a spring sur-rounding said spindle and the ends of which bear against the main body of the gear and the slidable section, and adapted to move the same into engagement with the main driving gear, substantially as shown and described. 4th. A mechanical movement, comprising a main driving gear, a series of sectional gears surrounding the same, body of the gear and the slidable section, and adapted to move the same into engagement with the main driving gear, substantially as shown and described. 4th. A mechanical movement, comprising a main driving gear, a series of sectional gears surrounding the same, each of which has a slidable notched section mounted therein, a pawl 16, one end of which is adapted to engage with said notch, and a stud for disengaging said pawl, substantially as shown and for the purposes set forth. 5th. A mechanical movement, com-prising a main driving gear, a series of sectional gears surrounding the same into engage with said notch, and a stud for disengaging said pawl, substantially as shown and for the purposes set forth. 5th. A mechanical movement, com-prising a main driving gear, a series of sectional gears surrounding the same into engage. The said notch is adapted to engage with said notch, and a stud for disengaging said pawl, substantially as shown and for the purposes set forth. 5th. A mechanical movement, com-prising a main driving gear, a series of sectional gears surrounding it in with a circular spring bearing against the bases of all of the text. The same is a spring bearing against the bases of all of the tion with a circular spring bearing against the bases of all of the

the same, each of which has a slidable section therein, a stud 15 mounted on the surface of the slidable section, a spring adapted



to engage with said stud, said stud actuating said spring, whereby the release of said gear is accomplished, substantially as described and for the purposes set forth. 6th. A mechanical movement, com-prising a main driving gear, a series of sectional gears surrounding the same, and each of which has a stud 18, a pawl on the adjacent gear to come into contact with said stud and disengaging said pawl from the notch in the side of the slidable section of the gear, a spring pressing against one end of said section, substantially as shown and for the purposes set forth. 7th. In a mechanical movment, comprising a main driving gear, a series of sectional gears surrounding the same, cams rigidly secured to the framework, studs attached to the slidable sections of the gears and so situated as to come in contact with the cams and actuating the same, thereby shifting the position of the slidable sections, substantially as described and for the purposes set forth.

## No. 66,508. Mechanical Movement.

(Mouvement mécanique.)



Jacob E. Hartwell and George W. Waters, both of Troy, Montana, U.S.A., 7th March, 1900; 6 years. (Filed 9th September, 1899.)