To all whom it may concern:  

Be it known that I, Wesley Wright, a citizen of the United States, and a resident of Blackwell, in the county of Kay and State of Oklahoma, have invented a new and improved Compound Land-Roller, of which the following is a full, clear, and exact description.

The object of the invention is to provide a compound land roller, so constructed and arranged that it may be used in rolling flat surfaces and also for rolling in furrows, and further, for rolling the land between rows of sprouting grain.

To the above ends, the invention consists of a compound sectional land roller, and of the devices and combinations of devices which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 shows the roller as an entirety, with all the sections in position for use, a portion being broken away and shown in section to illustrate the meeting connection between the furrow roller sections and adjoining sections; Fig. 2 shows the roller as it is used in rolling in furrows; Fig. 3 shows the roller as it is used when rolling between the rows of standing grain on flat land; Fig. 4 shows an end elevation; and Fig. 5 shows a vertical sectional view through the frame or platform, and shows in side elevation one of the sections for rolling in furrows.

The machine comprises a suitable frame or platform A, constructed of any suitable material, from the under side of which extend depending brackets a, which, as shown in Figs. 4 and 5 of the drawing, will preferably be provided with a vertical standard a', and angularly-arranged braces a'. The brackets a support, at their lower ends, bearings a", in which is mounted a shaft B. Upon the shaft B is supported a roller C, which is arranged to freely turn on said shaft as the apparatus is drawn over the ground.

A suitable tongue D is bolted to the top of the platform A, for the purpose of hitching a team to the apparatus, and also it may have a spring standard E bolted to the top of the platform A or to the rear of the tongue D, to support a seat for the driver, which seat, however, is not shown in the drawing.

The roller C is a compound roller, constructed of a plurality of sections arranged preferably in two groups, the groups being designated as C', C", and located upon each side of the center bracket a, and between the center bracket a and the end brackets a', as clearly shown in Figs. 1, 2 and 3 of the drawing.

At each end of the shaft B are disposed sections e, which may be regarded as wheel sections, and which are merely disks or wheels with plain sides; and preferably the roller C will have intermediate sections e', substantially like the sections e. Between the sections e and e', there is a compound roller section, comprising disks or wheels e", having upon one surface or side recesses e', having beveled walls e", and between the wheels or disks e", there are mounted sections e", each of which has an intermediate flat peripheral portion and beveled end portions at either end, as shown in e'. As shown clearly in Fig. 1 of the drawing, when the whole is used as an entirety, the sections e" will be interposed between two of the sections e", in such a manner that the beveled ends e' of the section e" will be received in the recesses e" of the sections e". Preferably, the central section of the roller will consist of a section substantially like the section e", but divided on a line cutting the flat peripheral surface at its center, thus forming two sections e", having one flat end adjacent the bracket a, and one beveled end e". As shown in Fig. 1, the peripheries of all the sections will be provided with transversely-extending ribs e', such ribs extending diagonally across flat peripheral surfaces, and in practice, the ribs of one section will be angularly-disposed with relation to the ribs of the next adjacent section.

When it is intended to use the roller for rolling plain and flat surfaces, as shown in Fig. 1 of the drawings, all the sections of the wheel will be employed, and the parts will be arranged as therein shown, thus forming a practically continuous roller, with radially-extending ribs on its periphery substantially zig-zag in form. When it is desired to roll in the furrows of a "listed" land, all the sections are removed with the exception of the sections e' and e", and for the purpose of keeping these sections from
having a longitudinal movement of any extent along the shaft B, suitable stop collars B' will be secured to the shaft by means of set screws b, a collar being mounted on the shaft at either side of the sections c' and d'. Thus the sections c' and d' will be held to the shaft in a substantially fixed position and in position to act properly within the furrows of the "listed" land. Should it be desired to roll the land between rows of budding grain, the sections c' and d' will be removed, and the sections c, c' and d will be left upon the shaft B, leaving spaces B' between groups of adjacent sections, within which the budding grain may be received, and the land rolled at each side of the row of grain, without liability of injuring the grain.

It will be noted that by the construction shown and described, there will be provided practically three separate, and distinct rolling machines; namely, a roller for "listed" ground; a roller for rolling between the rows of budding grain, and a roller for flat land.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. A land roller, comprising a plurality of plain disks and groups of adjacent disks, the members of which have mating beveled ends.

2. A land roller comprising a plurality of sections arranged in groups, the end sections of the groups having beveled recesses in one face, and the intermediate section having beveled ends to fit said recesses.

3. A land roller, comprising a plurality of sections arranged in groups, the end sections of the groups having beveled recesses in one face, and the intermediate section having beveled ends to fit said recesses, a shaft upon which said sections are mounted, and adjustable collars for positioning the sections on the shaft.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WESLEY WRIGHT.

Witnesses:

W. M. Braly,
M. E. Murray.