

M. WOODS & T. J. GILBERT.
RAIL DRESSING MACHINE.
APPLICATION FILED MAR. 11, 1911.

1,040,833.

Patented Oct. 8, 1912.

3 SHEETS—SHEET 1.

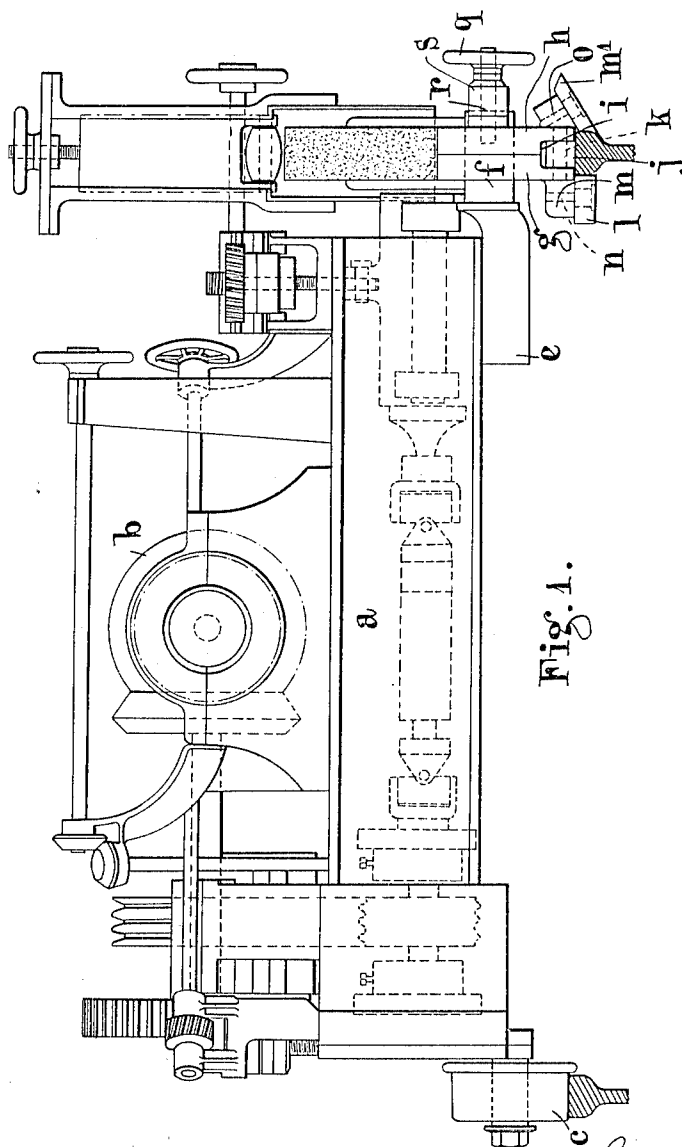


Fig. 1.

Witnesses:
James D. Mansfield.
L. E. Witham.

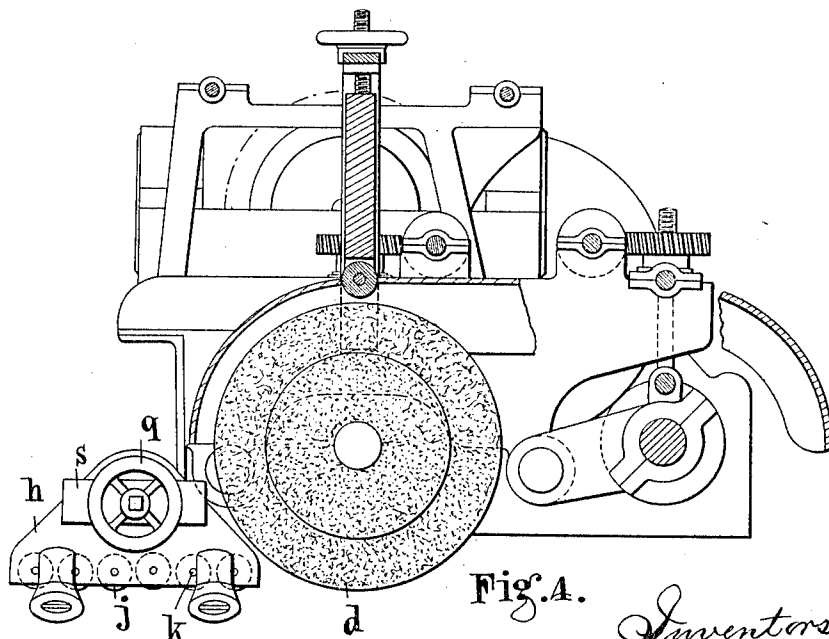
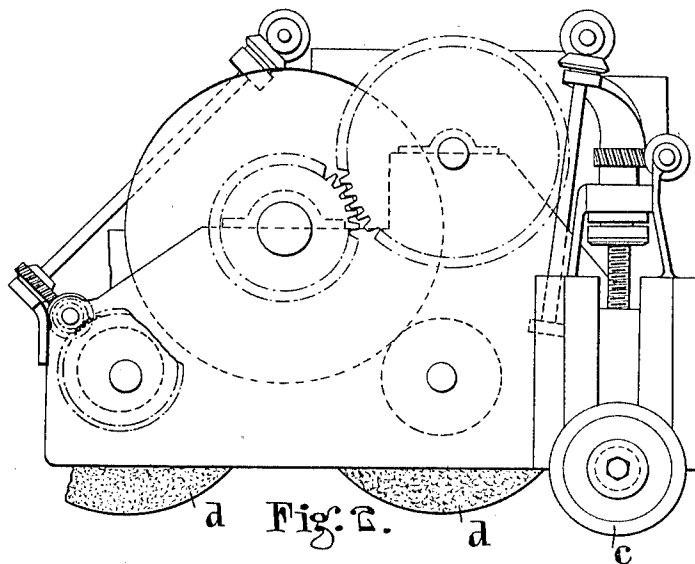
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Thomas J. Gilbert.
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3 SHEETS-SHEET 2.



Witnesses:
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Fig. 4. Inventors:
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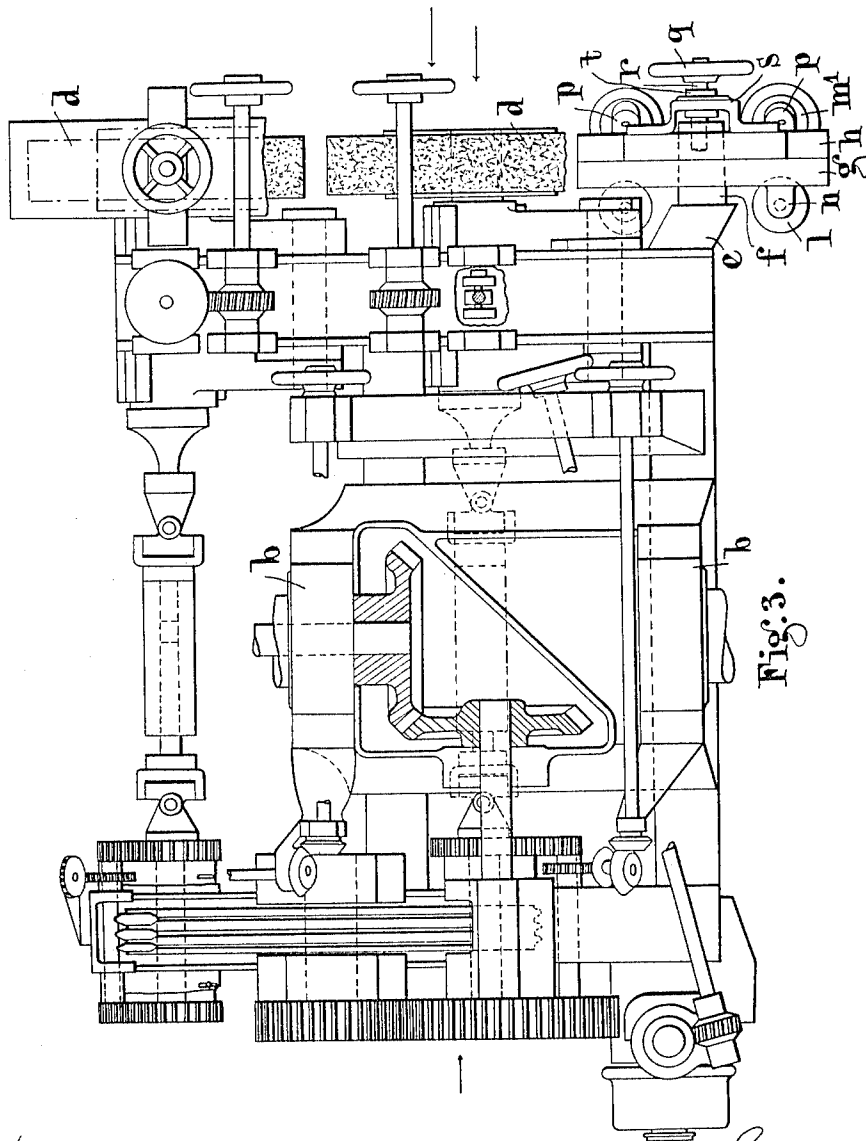


Fig. 3.

Witnesses
James P. Mansfield
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Inventors
Michael Woods
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UNITED STATES PATENT OFFICE.

MICHAEL WOODS, OF CARLTON, AND THOMAS JEFFERSON GILBERT, OF BRUNSWICK,
VICTORIA, AUSTRALIA.

RAIL-DRESSING MACHINE.

1,040,833.

Specification of Letters Patent.

Patented Oct. 8, 1912.

Application filed March 11, 1911. Serial No. 613,790.

To all whom it may concern:

Be it known that we, MICHAEL WOODS, a subject of the King of Great Britain and Ireland, and residing at 309 Pigdon street, Princes Hill, Carlton, in the county of Bourke, State of Victoria, Commonwealth of Australia, engineer, and THOMAS JEFFERSON GILBERT, a subject of the King of Great Britain and Ireland, and residing at 1 Minnie street, Brunswick, in the county of Bourke, State of Victoria, Commonwealth of Australia, dealer, have invented certain new and useful Improvements in and Relating to Rail-Dressing Machines, of which the following is a specification.

This invention relates to rail dressing machines for instance of the kind described in the specification to our copending application Serial No. 538,519, and is particularly, though not solely, applicable to grinding tools.

Hitherto in rail dressing machines considerable difficulty has been experienced owing to the tendency which the tool has to follow, and thus exaggerate, rather than remove the existing corrugations or depressions in the rail.

The present invention has for its object to overcome this disadvantage and it consists in the provision of a series of rollers adapted to form an extended support for the tool and thus permit of the tool following a true path and removing the irregularities.

One mode of carrying out the invention as applied by way of example to a combined carriage and holder adapted to support a grinding wheel or wheels, is illustrated by the accompanying drawings, in which—

Figure 1 is an elevation of a combined carriage and holder embodying the present invention, while Fig. 2 is an elevation looking in the direction of the single arrow in Fig. 3. Fig. 3 is a plan of Fig. 1, and Fig. 4 is an elevation looking in the direction of the pair of arrows in Fig. 3.

The combined carriage and holder, consisting of a framework *a* is provided with removable trunnion caps *b* for accommodating trunnions on the rail dressing ma-

chine, and is supported on one side on an adjustable flanged wheel, *c*, while on the other side are mounted grinding wheels, *d*.

Secured to the framework in front of the grinding wheels *d* is a bracket *e* carrying a pin *f* upon which are mounted two plates *g* and *h* joined together and shaped to form a groove *i* wherein a series of rollers *j* are arranged upon pins *k*. When the machine is moving over a corrugated rail, these rollers ride over the tops of the corrugations and afford an extended or bridge like support for the tools and thus prevent the tools from dropping into the depressions.

If plain headed rails are to be treated, inner and outer side rollers are used adapted to make contact with the inner and outer sides of the rails. The former, *l*, are mounted upon pins *m* in lugs *n* formed upon the plate *g*, while the latter *m'* are mounted upon inclined pins *o* in lugs *p* formed upon the plate *h* and are beveled so as to clear up-standing fish plates. These side rollers are removed when grooved rails are being treated.

The carriage can be adjusted in a lateral direction by means of a hand wheel *q* operating a screw *r* which enters into the pin *f*. The screw *r* passes through a bridge *s* and is prevented from moving axially with relation thereto by means of collars *t* so that on turning the wheel *q* the carriage is moved toward or away from the rollers, the play of the flanged wheel *c* permitting of this.

It is obvious that the above described system of rollers may be used with any kind of rail dressing machine and that the number of and method of attaching the rollers to the machine may be varied according to circumstances.

Having now described our invention what we claim as new and desire to secure by Letters Patent is:—

1. In rail dressing machines, a combined carriage and holder secured to the machine, dressing means carried thereby, and a series of supporting rollers mounted upon said combined carriage and said rollers being directly in line with the dressing means holder

and adapted to form an extended and multiple contact support.

2. In rail dressing machines, a tool attachment secured to the machine, dressing means
5 carried thereby, a series of supporting rollers adjacent to said dressing means and directly in line therewith, and side rollers which contact with the rail being treated adjacent to said dressing means.

10 3. In rail dressing machines, a tool attachment secured to the machine, dressing means carried thereby, a bracket supported by said attachment, supporting rollers mounted upon said bracket, and adapted to form an
15 extended multiple contact support and

means carried by said bracket for laterally adjusting the tool attachment.

In witness whereof, we affix our signatures in the presence of two subscribing witnesses.

MICHAEL WOODS.

THOMAS JEFFERSON GILBERT.

Witnesses to the signature of Michael Woods:

B. H. MATTHEWS,

P. A. OUTHWAITE.

Witnesses to the signature of Thomas Jefferson Gilbert:

CECIL M. P. SLASTRIER,

GEORGE A. M'REN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."