

H. Kurtz,
Felbe Mach.

No. 98696.

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Fig. 1.

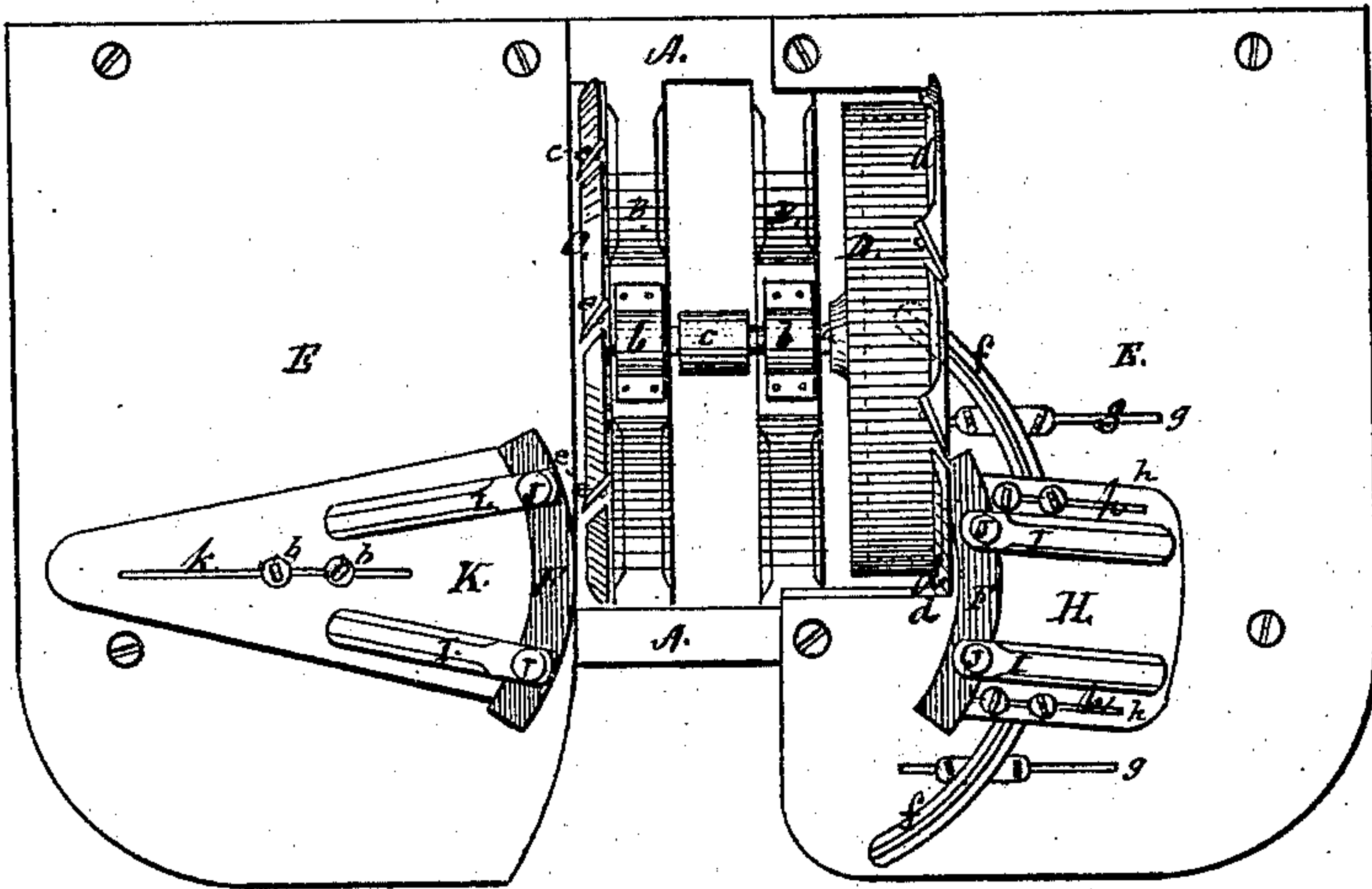
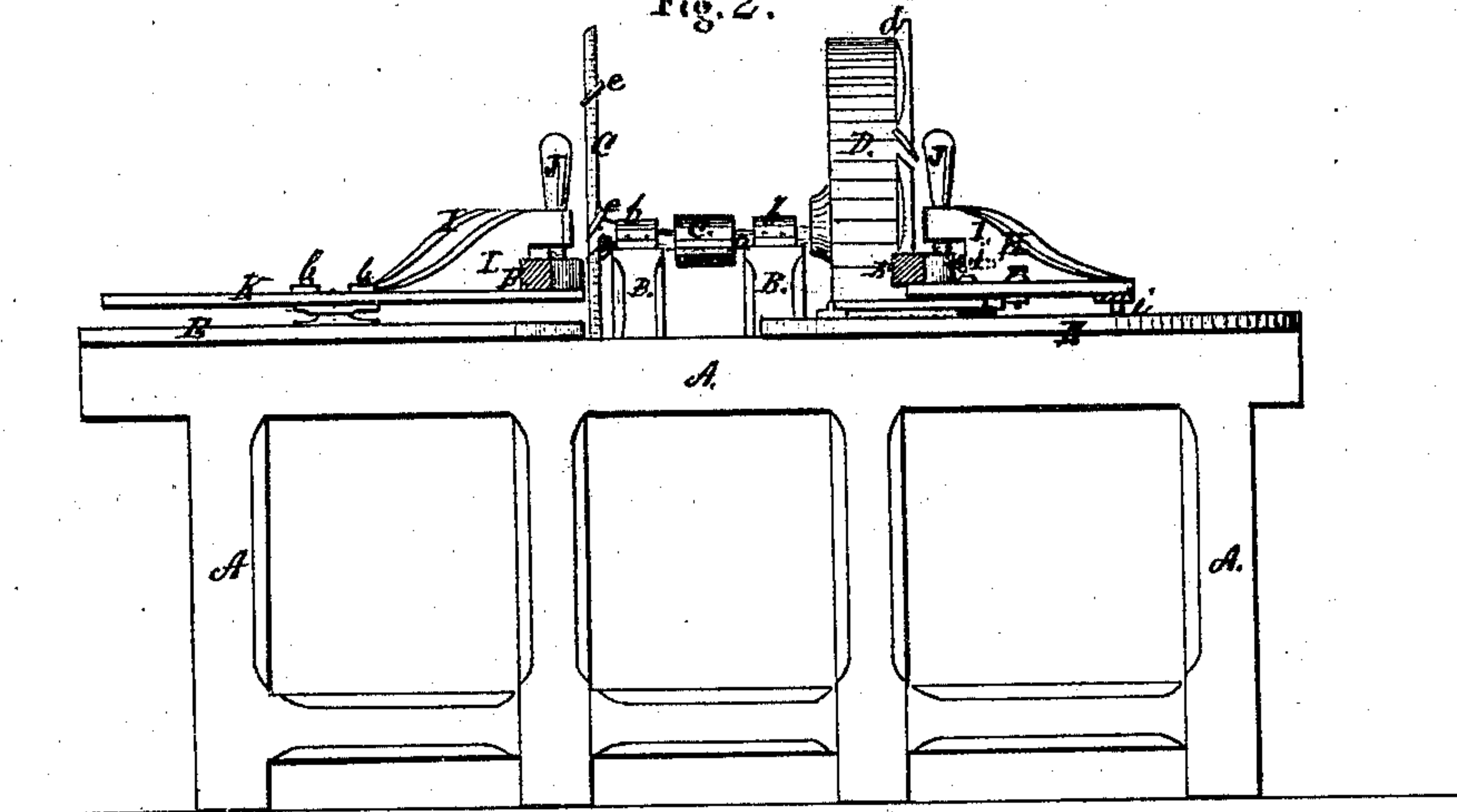


Fig. 2.



Witnesses.

Chas. H. Poole.

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United States Patent Office.

HENRY KURTZ, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 98,696, dated January 11, 1870.

IMPROVEMENT IN MACHINE FOR DRESSING FELLOES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HENRY KURTZ, of Washington, in the county of Washington, and District of Columbia, have invented certain new and useful Improvements in Felloe-Dressing Machines; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a plan or top view of the machine, showing the two cutting-disk wheels on one shaft; the two tables with their adjustable clamp-carriages, for holding the felloes to be dressed truly, both on the inside and outside of the circle.

Figure 2 shows a longitudinal front elevation of the machine, with an edge view of the carriages for holding the felloes to be dressed.

The object of my invention is to save a large amount of time and hand-labor in fitting the inside and outside of the rims of wheels for gun-carriages, caissons, army-wagons, and for other vehicles, and dress the felloes more truly than they can be done in any ordinary manner.

My invention consists in the construction of the sunken or concave planing-disk D, with its flange and cutters, as arranged and combined with the adjustable clamp-carriage H, the adjustable segment rail-guide *f f*, and the supporting-tables E, for dressing the inner circle of felloes; and also in the arrangement of the cutting-disk C on the same shaft, the clamping-carriage K, and table, for dressing the reverse or outer circle of the felloe, thereby doubling the capacity of the machine for performing a certain amount of work in a given time.

To enable others to make and use my invention, I will proceed to describe it more in detail.

The frame A A should be substantially constructed, either of wood or metal, to resist the vibrations of the operating-parts, and may be of any suitable form, height, size, or dimensions, with cross-pieces B B, on which the journal-boxes *b b* are secured, in which the shaft or mandrel *a* is fitted to run, being driven by the band-pulley *c*.

On both ends of the shaft *a* are fitted the cutter-flanges C and D, they facing outward toward both tables E E, which are supported on both ends of the frame A A.

The flange C may be a plane-faced disk, provided with a series of cutting-bits, *e e e e*, on the periphery of the wheel, which will answer every purpose for dressing the outer circle of the felloe F.

The sunken or concave planing-disk D has a right-angled projecting flange, *d d*, on the outer edge of which the series of cutter-bits *e e* is secured in the same manner as on the flange C, so that there will be

sufficient room in the concave to admit the guide-circle *f f* to extend in toward the shaft *a*, beyond the line of the cutting-bits *e e* in the flange *d d*.

The guide-track or circle *f f* is made to be adjusted to and from the concave planing-disk D, by having slits *g g* in the table E, and bolts, with set-screws, to hold it in place.

The truck or carriage H, in which the felloe F is held for dressing the inside of the circle, has also an adjustable segment, with a groove to fit the guide-circle *f f*, which is held by bolts and thumb-nuts to the slits *h h*, in a similar manner, in the truck H, which is also provided with truck or friction-rollers *i i* on its under side, so as to operate freely on the track.

The carriage H is provided with two clamps I I and hand-screws J J, to hold the felloe firmly in its place against screw-steps *j j*, in the recess of the clamps I I, so that the width of the felloes F can be adjusted to a nicety, and every one dressed will be exact and uniform.

The carriage K, for clamping and dressing the outer circle of the felloe F, holds it in the same manner as the carriage H, and is provided with a slit, *k*, in both the carriage and the table E, to which it is pivoted, so that it can be readily and nicely adjusted to describe any circle desired, and held by bolts and thumb-nuts *l l* in the same manner.

The advantages of my machine, as will readily be seen, are that the cutters work true to the face of the circle, so that both edges of the felloe will be square with the face, and any number of the sections dressed by my machine will be exactly alike, and form a more perfect rim to a wheel than they can by any other process; and, furthermore, the placing of the two cutting-disks to operate on one shaft, fully doubles the facility of doing the work, as the felloe is changed from one truck or carriage to the other, thus avoiding re-handling.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The arrangement of the sunken or concave cutting-disk D, the adjustable clamp-carriage H, the segment-guide *f f*, and supporting-table E, constructed and operating in the manner as and for the purposes herein specified.

2. The arrangement of the cutting-disk C, the clamp-carriage K, and table E, constructed and operating in the manner as and for the purpose set forth.

HENRY KURTZ.

Witnesses:

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