

**ABRIDGMENTS OF
SPECIFICATIONS
RELATING TO
AIDS TO LOCOMOTION**

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Abridgments of Specifications Relating to Aids to Locomotion by Various

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VARIOUS

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AIDS TO LOCOMOTION**

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OF THE

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AIDS TO LOCOMOTION.

PRINTED BY ORDER OF THE COMMISSIONERS OF PATENTS.



35

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PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
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P R E F A C E.

THE Indexes to Patents are now so numerous and costly as to be placed beyond the reach of a large number of inventors and others to whom they have become indispensable.

To obviate this difficulty, short abstracts or abridgments of the Specifications of Patents under each head of Invention have been prepared for publication separately, and so arranged as to form at once a Chronological, Subject-matter, Reference, and Alphabetical Index to the class to which they relate. As these publications do not supersede the necessity for consulting the Specifications, the prices at which the latter are sold have been added.

Many Specifications being yet unpublished, the only guide in discriminating subjects in such cases has been the titles of Patents, which are frequently defective, and may therefore have led to an occasional omission.

When the entire series of Specifications shall have been printed it is intended to publish a new and complete edition of these Abridgments; meanwhile, the manifest usefulness of such works, and the urgency of the demand

for copies, have been considered a sufficient justification for the present issue.

In this series of Abridgments, under the title of "Aids to Locomotion," are included the following contrivances which have been invented for facilitating the progress of carriages or vehicles and agricultural implements over yielding and unyielding surfaces :—

Broad wheels and rollers.

Endless travelling railways : comprising endless chains of rollers—endless chains or connected series of short rails—series of rails or supporting pieces, applied separately to the wheel, but acting as a continuous railway—circular rails.

Wheels with spikes, projections, or ribs on their tires, to give them a firm hold upon the ground.

Wheels with teeth to gear into fixed racks, for the purpose of more easily ascending railway inclines, &c.

Endless series of claws or feet, for catching hold of the earth in succession, and impelling the carriage.

Impelling legs or levers, which, by repeated backward strokes, force the carriage onward.

Supporting legs, by which the carriage or implement is converted into a walking machine.

Wheels without tires, or with divided peripheries.

Wheels made with elastic or flexible peripheries, whereby a larger surface is caused to bear upon the ground or rail, and the bite of the wheel is increased.

PREFACE.

v

Fitting carriages and implements with a single broad wheel or roller ; and constructing vehicles of cylindrical and spherical forms.

Wheels having tires inlaid with wood, horn, india-rubber, gutta-percha, hide, leather, &c.

Screw propellers, to act against stationary points of resistance, and impel the carriage or implement.

Substitutes for supporting wheels or rollers.

B. WOODCROFT.

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[The names of persons by whom inventions have been communicated from
abroad, when known, are printed in *Italics*.]

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