

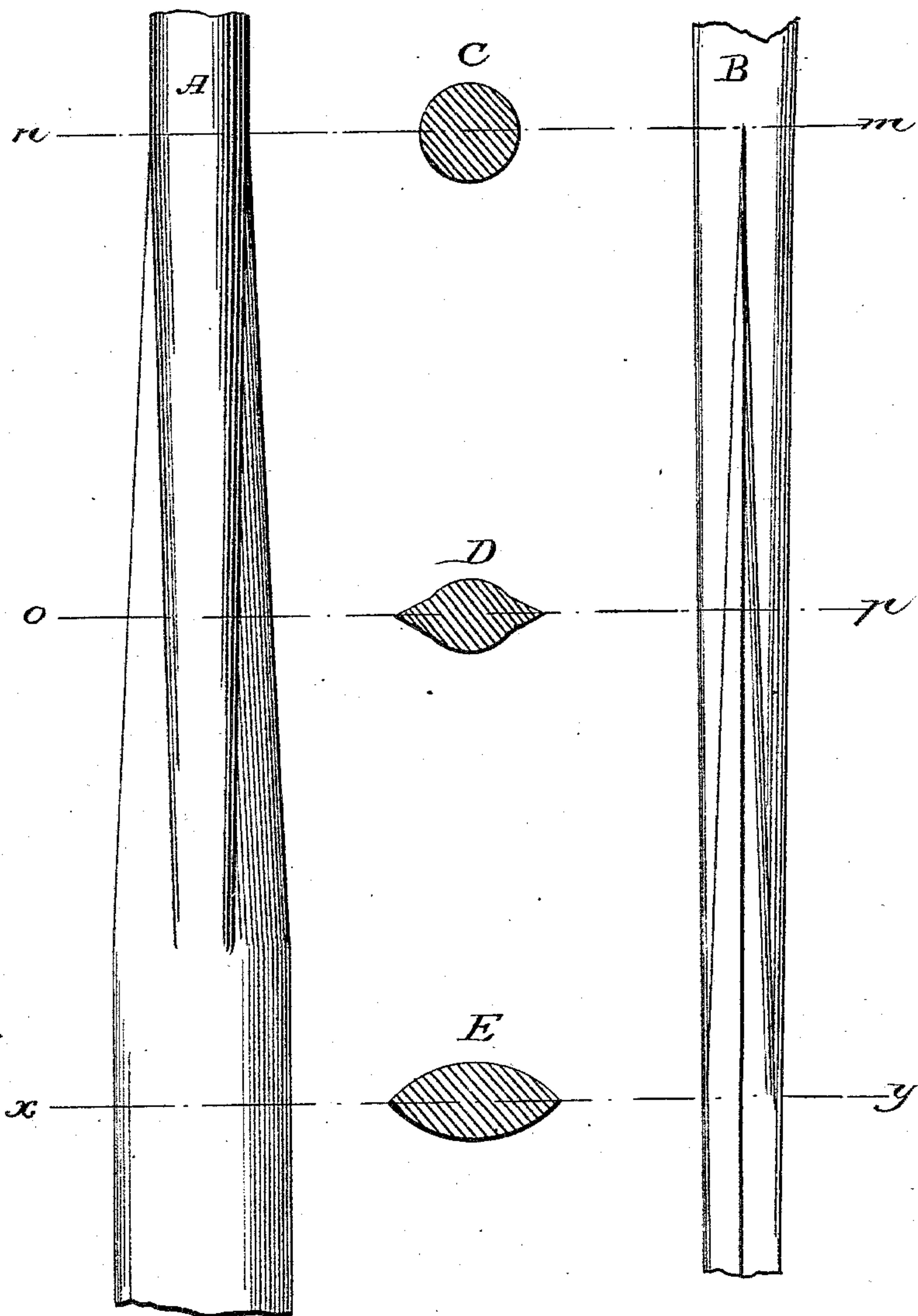
(No Model.)

M. McDOWELL.

BLANK FOR WHEEL SPOKES, HARROW TEETH, AND SIMILAR ARTICLES.

No. 283,410.

Patented Aug. 21, 1883.



Witnesses:

W. C. Hawley
Malcolm McDowell Jr.

Inventor:

Malcolm McDowell

UNITED STATES PATENT OFFICE.

MALCOLM McDOWELL, OF CHICAGO, ILLINOIS.

BLANK FOR WHEEL-SPOKES, HARROW-TEETH, AND SIMILAR ARTICLES.

SPECIFICATION forming part of Letters Patent No. 283,410, dated August 21, 1883.

Application filed February 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, MALCOLM McDOWELL, of the city of Chicago, county of Cook, and State of Illinois, have invented a new and useful Improvement in Metal Shapes Applicable to the Manufacture of Wheel-Spokes and Harrow-Teeth, of which the following is a description, the letters referring to parts designated by similar letters in the accompanying drawing.

The shape is rolled from a bar into an irregular form, which is round at one end and flattened down into an oval at the other, the intermediate portion having a triangular or diamond shaped ridge or fin rising up from the round portion, and continuing until it terminates in the oval portion.

In the drawing accompanying and illustrating the specification, A is a side elevation of the shape showing the widening of the round until it terminates in the oval. B is a plan of the shape showing a triangular or diamond shaped ridge rising up out of a

round and terminating in an oval. C is a section on line *n m*, showing the round portion. D is a section on line *o p*, showing the combined oval and diamond portion; and E is a section on line *x y*, showing the oval portion.

What I claim is—

The particular form herein described and shown of a bar of metal from which to form wheel-spokes, harrow-teeth, or other articles, having at one end a lenticular section, the larger diameter of which regularly diminishes and the shorter increases—till both become equal at or near the other end of the bar, which has there a circular section—while at intermediate points the larger diameter terminates in sharp ridges and the shorter diameter is limited by a curved surface.

In witness whereof I have, this 28th day of December, A. D. 1882, fixed my hand.

MALCOLM McDOWELL.

Witnesses:

MALCOLM McDOWELL, Jr.,
SAML. KIMBERLY.