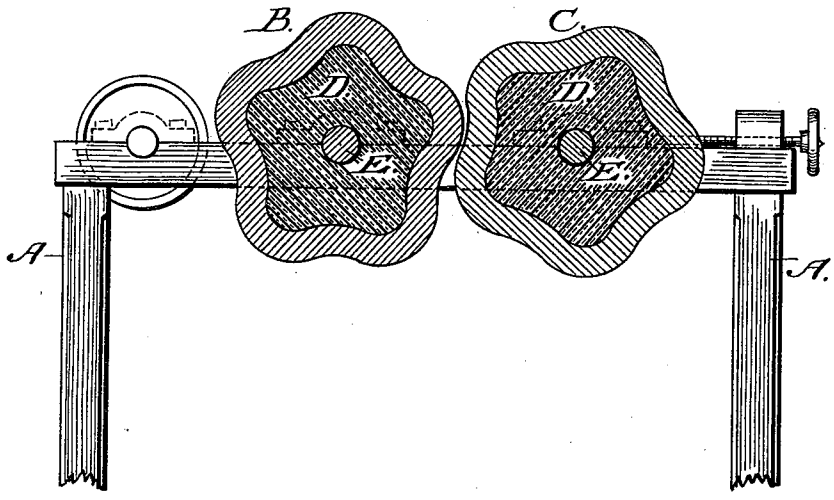
(No Model.)

E. A. WALL.

CRUSHING ROLL.

No. 372,583. Patented Nov. 1, 1887.



WITNESSES
T. D. Fowler
N. A. Patterson

INVENTOR
Enos A. Wall
per A. H. Evans & Co
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N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

ENOS A. WALL, OF SALT LAKE CITY, UTAH TERRITORY.

CRUSHING-ROLL.

SPECIFICATION forming part of Letters Patent No. 372,583, dated November 1, 1887.

Application filed February 5, 1887. Serial No. 226,683. (No model.)

To all whom it may concern:

Be it known that I, ENOS A. WALL, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and Territory of Utah, have invented certain new and useful Improvements in Crushing-Rolls, of which the following is a full and clear description, reference being had to the accompanying drawing, forming part of this specification, in which the figure represents a sectional view of a portion of a crushing-machine embodying my improvements.

My present invention relates to crushing-rolls, and is an improvement on my former patent, No. 332,978, issued to me December 22, 1885; and it consists in the peculiar construction and combination of parts which I shall hereinafter fully describe and claim.

To enable others skilled in the art to which my invention appertains to make and use the same, I will now describe its construction and indicate the manner in which the same is carried out.

In the said drawing, A represents a frame-work, within which the crushing-rolls B C are suitably mounted. These rolls B C are fluted or corrugated in lines parallel with or inclined to their axis, as shown in my said former patent.

The shell of each of the rollers B C has an interior configuration corresponding with its exterior surface, and is placed upon and suitably secured to each of the cores D, of soft cast metal, whose outer surfaces are corrugated to correspond with the inner surfaces of said shells. These soft-metal cores are bored to receive shafts E, with which they rotate, being secured thereto by any well-known means. From this construction it will be seen that I am enabled to provide each roller with a corrugated shell, which will be available for service until nearly worn through before being replaced by a new one.

In the construction illustrated in my former patent, above referred to, it has been found that the metal between the bottom of the grooved portion of the roll and the cylindrical core was quickly worn through, thereby leaving the intervening portion of the metal composing the ribbed portion of the shell to be cast aside, causing greater loss of material, &c. In the present case this loss of material is avoided, as the thickness of metal is the same at all points throughout the shell; also the shell is more securely supported.

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

The combination, with the shell having its interior and exterior surface corrugated, of an externally-corrugated soft cast-metal core engaging said shell, and having a cylindrical bore, substantially as herein described.

ENOS A. WALL.

Witnesses:
W. S. MCCORMICK,
CHRISTOPHER DIEHL.