

H. ROYER.

RAW-HIDE BELTING-ROPE.

No. 191,374

Patented May 29, 1877.



Witnesses

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# UNITED STATES PATENT OFFICE.

HERMAN ROYER, OF SAN FRANCISCO, CALIFORNIA.

## IMPROVEMENT IN RAWHIDE BELTING-ROPE.

Specification forming part of Letters Patent No. **191,374**, dated May 29, 1877; application filed January 27, 1877.

*To all whom it may concern:*

Be it known that I, HERMAN ROYER, of the city and county of San Francisco, and State of California, have invented an Improved Belting-Rope; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings.

The object of my invention is to provide an improved article of belting-rope, which shall be free from the fault of stretching too much, or being too stiff to move freely around small pulleys, and from liability to crack and break off by use.

Round rope of various kinds is largely employed for the purpose of driving grooved pulleys, and it is very difficult to obtain an article which will work well and be durable. When these ropes are made of leather which has undergone the ordinary process of chemical tanning, they are of inferior tensile strength, from the effects of the tanning.

When made of pure rawhide these ropes are too stiff to run well on small pulleys. They will stretch too much, and from their stiffness will eventually cut and break or wear out.

My invention consists in making ropes of fulled or mechanically-prepared rawhide, and it is done by first preparing the hide mechanically by a method for which Letters Patent were issued to me May 12, 1868, and April 21, 1874, or by any other means for rendering rawhide pliable without tanning or other chemical process.

I avoid the use of salts, acids, alkalies, or astringents, for the reason that they impair the native strength and resistance to abrasion for which pure rawhide is noted. After the hide is made pliable it is cut around in long threads by hand or by machine, and these threads are cemented together and wound upon spools or bobbins, and twisted or plaited into rope.

The rope made of this prepared rawhide possesses all the strength of the original rawhide, and also its resistance to abrasion. It is equally unaffected by time or atmospheric changes. Its advantages are its pliancy and elasticity, without the fault of continuous stretching, its greater adhesion to grooved pulleys, and the ease with which splices can be made without making unsightly enlargements at the point of junction.

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

As a new article of manufacture, belting-rope, formed from long threads of prepared rawhide, cemented together, and twisted or plaited into rope, substantially as herein described.

In witness whereof I have hereunto set my hand and seal.

HERMAN ROYER. [L. S.]

Witnesses:

GEO. H. STRONG,  
OLWYN T. STACY.