

No. 833,426.

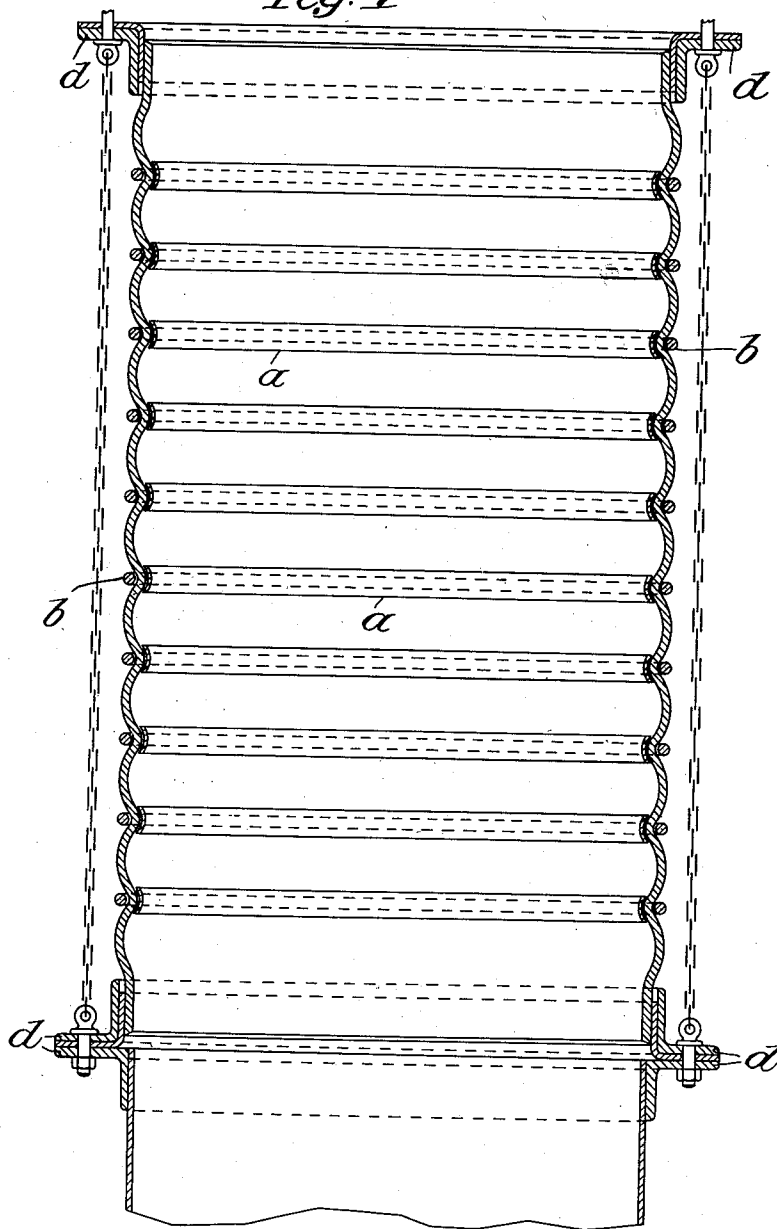
PATENTED OCT. 16, 1906.

J. TAUBE.
HOSE FOR SUCKING AND DREDGING ENGINES.

APPLICATION FILED MAY 23, 1905.

2 SHEETS—SHEET 1.

Fig. 1



witnesses

*Hm. Kulhse
A. J. McElhinney*

*Inventor
Johann Taube*

*By Richard E.
Attorneys*

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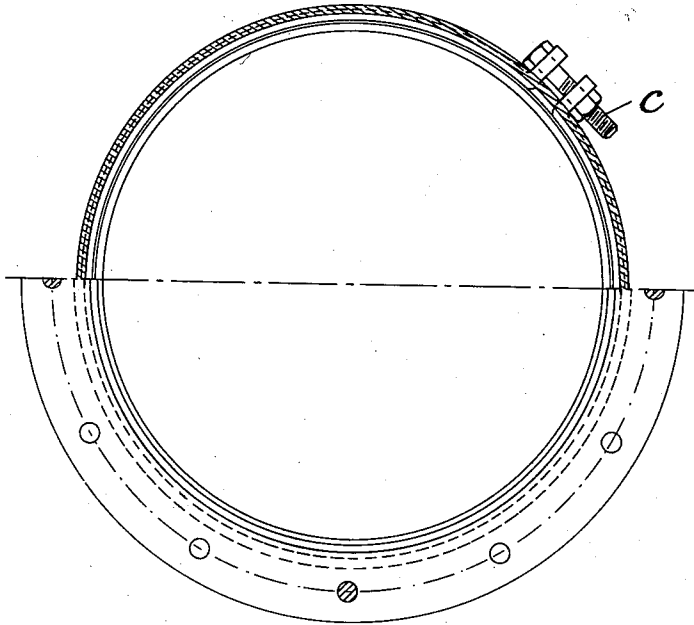
J. TAUBE.

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APPLICATION FILED MAY 23, 1905.

2 SHEETS—SHEET 2.

Fig. 2



Witnesses

H. Kuehn
J. W. Ellinger

Inventor
Johann Taube

By Richard E.

Attorneys

UNITED STATES PATENT OFFICE.

JOHANN TAUBE, OF RIGA, RUSSIA.

HOSE FOR SUCKING AND DREDGING ENGINES.

No. 833,426.

Specification of Letters Patent.

Patented Oct. 16, 1906.

Application filed May 23, 1905. Serial No. 261,887.

To all whom it may concern:

Be it known that I, JOHANN TAUBE, a citizen of the Russian Empire, residing at Riga, in the county of Livland, Russia, have invented certain new and useful Improvements in Pressing Hose-Pipes for Suction-Dredgers, of which the following is a description, reference being had to the accompanying drawings, forming part of this specification.

The well-known pressing hose-pipes of this kind have the disadvantage that in use they are very unwieldy. This is attributable to their being surrounded with a protective covering made of wire. Now if, for example, repairs are necessary this protective covering must first be removed. Secondly, the said covering increases the weight, and, thirdly, it offers, however, an amount of protection which is not sufficient for the pressing hose-pipes of dredgers undergo most mechanical changes in the interior. It is consequently frequently noticeable that they become wrinkled because they cannot stretch sufficiently in all directions. Further, it frequently happens that the hose-pipe breaks off, together with the protective cover. These defects continually cause expense and breakdowns.

The new pressing hose-pipe, on the contrary, has the following points of superiority: First, in spite of the greatest simplicity its construction guarantees absolute safety in use, and the hose-pipe is cheaper than those hitherto known. Second, the new hose has greater durability and can be readily repaired. Third, the new pressing hose-pipe is materially lighter than previous hose-pipes, because the customary wire protective covering and, moreover, the iron rings connected with the latter are dispensed with.

In the accompanying drawings, Figure 1 shows the new pressing hose-pipe in longitudinal sectional elevation; and Fig. 2 is an end view of the hose-pipe, the lower half of the figure being an end elevation and the upper half being a cross-sectional elevation.

The hose-pipe is of the ordinary form and is manufactured from a suitable material capable of offering resistance—such as, for example, leather, rubber, or the like. In the interior of the same rings *a*, made from

metal or the like, are arranged, said rings being placed parallel to and at suitable distances from one another, their planes being at right angles to a horizontal axis. Their number depends upon the distance between each ring and its neighbors and according to the length of the hose-pipe, and, moreover, also upon the degree of resisting capacity required in it, for they serve in the acquisition of said resisting capacity. In order to hold the rings in their determined position, but at the same time to protect the hose-pipes from the consequences of pressure-iron bands *b*, equal in number to that of the rings and parallel to the latter, surround the hose-pipe, said iron bands tightly inclosing said rings. These iron bands are tightened round the hose-pipe and over the inner rings in a very simple manner by means of a screw *c*.

A third important constituent part of the invention consists in the arrangement of several chains on the exterior of the hose-pipe, said chains being of the same length as that of the hose-pipe and connecting the separate flanges *d*, Fig. 1, with one another, whereby the hose-line is prevented from becoming broken during the motion of the dredger, without, however, difficulties being put in the way of the formation of the bends in the hose-pipe, which are unavoidable in this work.

Having now described my invention, I claim—

1. A pressing hose-pipe for suction-dredgers having in its interior a plurality of rings arranged parallel to one another, each of said rings being held in its position by an outer metal band provided with tightening means, substantially as and for the purpose set forth.

2. A pressing hose-pipe for suction dredgers composed of a number of sections connected together by flanges and a plurality of chains connected to the flanges of each section.

In witness whereof I have hereunto set my hand in presence of two witnesses.

JOHANN TAUBE.

Witnesses:

HENRY HASPER,
WOLDEMAR HAUPT.