

(No Model.)

C. F. MUNSON.
HOSE SPLICE.

No. 584,008.

Patented June 8, 1897.

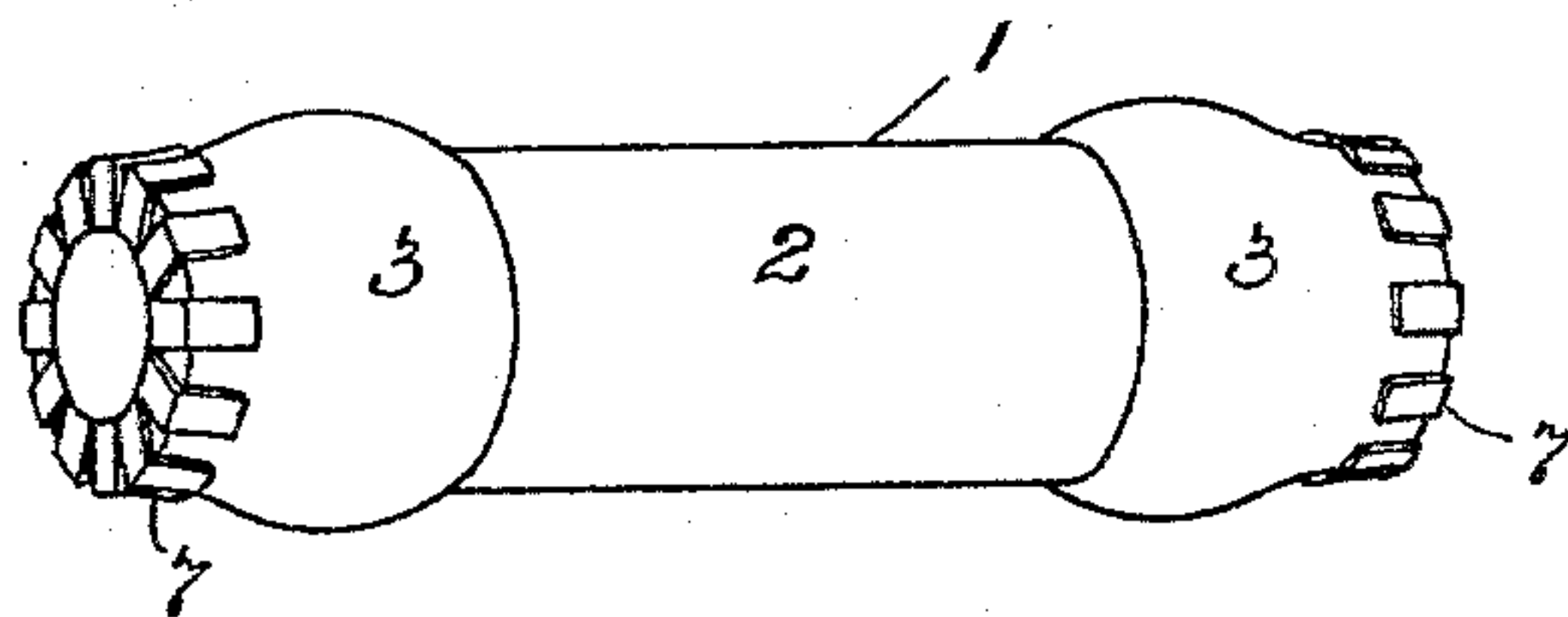


Fig. I.

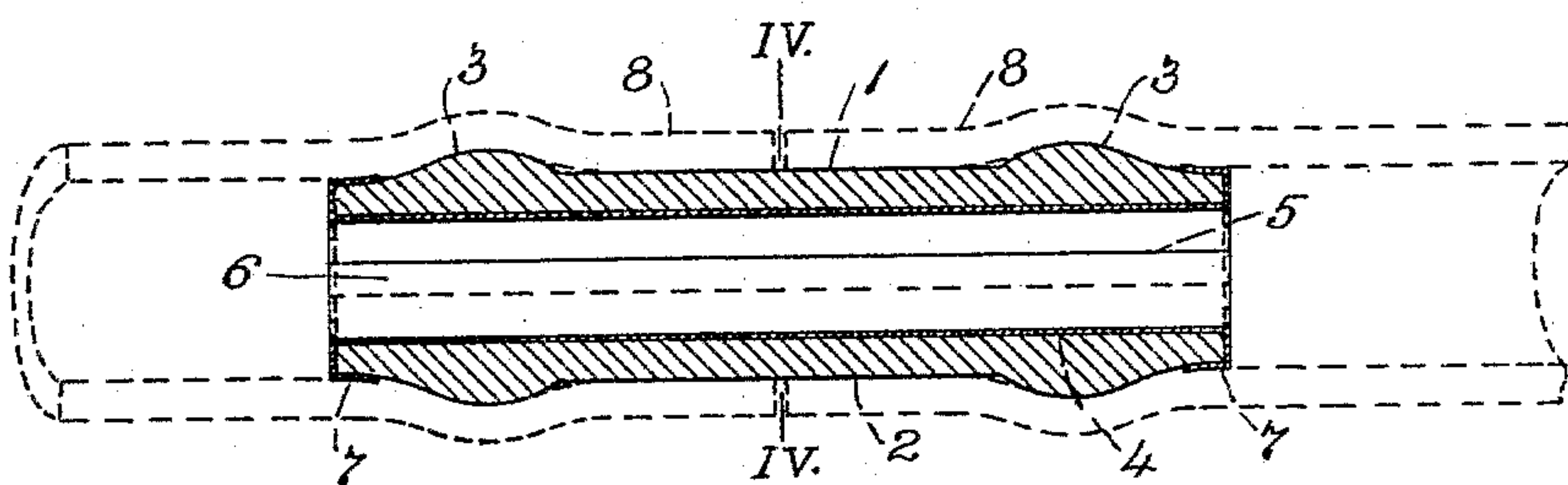


Fig. II.

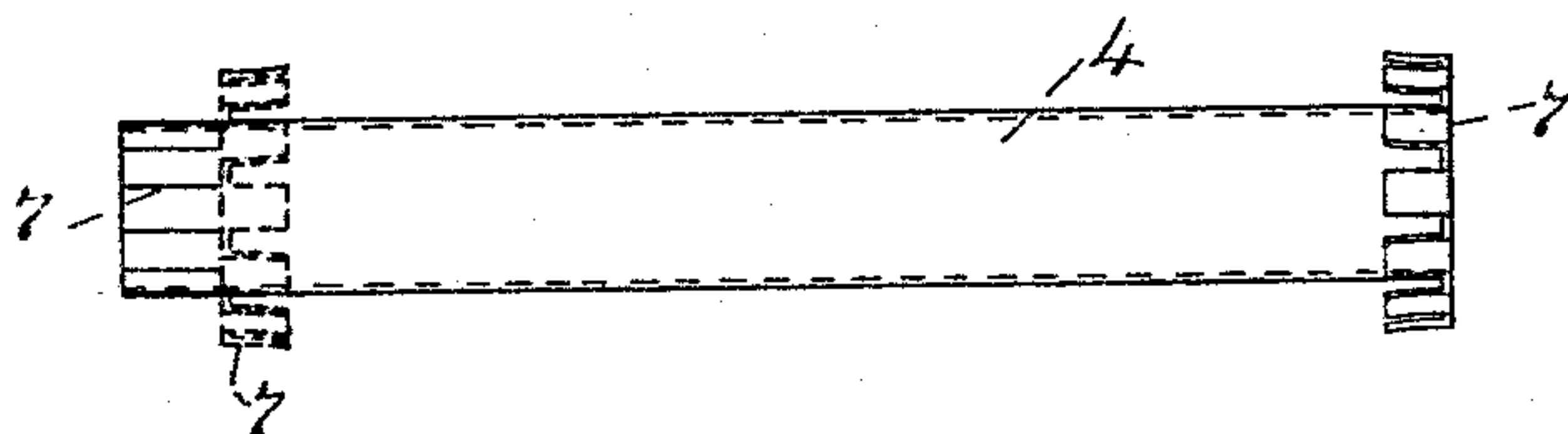


Fig. III.

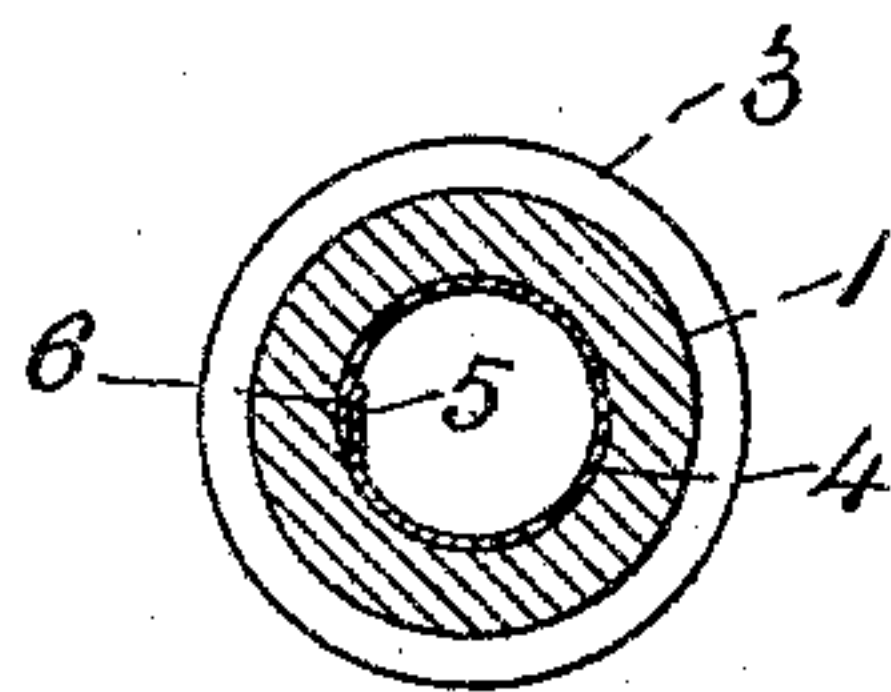


Fig. IV.

WITNESSES.

Henry C. Brett.
Walter E. Allen.

INVENTOR

C. F. Munson;

BY

Knightr Bros.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES F. MUNSON, OF LOS ANGELES, CALIFORNIA, ASSIGNOR OF
TWO-THIRDS TO JUANA ACHEY NEAL AND JOHN WOLFSKILL, OF
SAME PLACE.

HOSE-SPLICE.

SPECIFICATION forming part of Letters Patent No. 584,008, dated June 8, 1897.

Application filed July 5, 1895. Serial No. 554,988. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. MUNSON, of Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in a Hose-Splice, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to certain new and useful improvements in devices for splicing hose, and is intended more especially as a quick and cheap means for repairing and connecting portions of hose that have become cracked through use; and my invention consists in certain features of novelty hereinafter described and claimed.

Figure I represents a perspective of my improved splicing-tube. Fig. II is a longitudinal section of the same. Fig. III represents a side elevation of the metal lining of the tube. Fig. IV represents a transverse section taken on line IV IV, Fig. II.

Referring to the drawings, 1 represents my improved splicing-tube, said tube having a central portion 2 and integral bulb-shaped end portions 3, the largest diameter of the bulb-shaped portions being greater than the diameter of the central portion 2. The bulb-shaped parts 3 curve outwardly and inwardly, the outer ends of the tube being of substantially the same diameter as the central portion.

In order to prevent the tube from cracking or checking, I provide the same with a metal lining-tube 4, preferably of tin, said lining having its edges 5 free and overlapping each other, as shown at 6. The ends of the lining-tube 4 are divided, as shown at 7, and folded back over the outer ends of the tube 1, thus holding the lining in its proper position in the tube and at the same time protecting the same.

In placing the lining in the tube the divided part 7 at one of the ends of the lining is left in a straight line with the body of the lining until it is placed within the tube 1, and is then

bent back upon the end of the tube. (See dotted lines, Fig. III.)

The edges of the lining being left free and overlapping each other permit the lining-tube to expand as the pressure of water is turned into the hose and the tube 1 begins to swell.

The tube 1 is preferably made of soft wood, and as it becomes saturated with water will expand and, pressing outwardly against the inner wall of the hose, will form a splice that no ordinary force can separate.

The two sections of hose are placed over the tube, as shown at 8, the bulbs 3 expanding the hose where it passes over the same, the meeting ends of the hose being allowed to contract on the central portion 2, said bulbs serving to hold the two ends of the hose together until the splicing-tube has become swelled.

I claim as my invention—

1. In combination with a hose, a splice consisting of a hollow cylindrical lining constructed to fit within the meeting ends of the hose and of absorbent and expansible wood whereby it binds by outward expansion in the hose to make a tight joint, and having the metallic lining with its ends turned over the ends of the filling-piece as explained.

2. The combination with the meeting ends of hose, a splice consisting of a hollow cylindrical piece of wood expansible by absorption of liquid, and a metal lining-tube having its split edges overlapping, substantially as set forth.

3. In a hose-splice the combination of a tubular body, a metal lining within the same, said lining having its ends divided into a series of strips and having said strips folded back upon the ends of the tubular body, substantially as set forth.

CHARLES F. MUNSON.

Witnesses:

JAS. E. KNIGHT,
M. H. KNIGHT.