

## Title (en)

METHOD AND APPARATUS FOR PRODUCING AN RF CURED HOSE, AND THE HOSE SO PRODUCED

## Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINES HF-AUSGEHÄRTETEN SCHLAUCHS UND SO HERGESTELLTER SCHLAUCH

## Title (fr)

PROCEDE ET APPAREIL PERMETTANT DE PRODUIRE UN TUYAU FLEXIBLE DURCI PAR RF ET TUYAU FLEXIBLE AINSI PRODUIT

## Publication

**EP 1676071 A4 20110504 (EN)**

## Application

**EP 04786632 A 20040920**

## Priority

- CA 2004001711 W 20040920
- CA 2443194 A 20030926
- US 67026603 A 20030926

## Abstract (en)

[origin: WO2005031206A1] An apparatus for making a hose including a weaving machine and a liner feeder for forming the hose by weaving a jacket about a liner as the liner is being fed into the weaving machine, where the liner is provided with an adhesive layer on an outer surface, the adhesive layer being doped with a radiation absorbing element. The apparatus includes a feeder for receiving and for flattening the hose and an oven located downstream from the feeder, including a bore through which the hose passes, the oven including a module for applying radiation to the hose so that the radiation absorbing element heats following the application of radiation for bonding the liner to the jacket. A winder is located downstream at a predetermined distance away from the oven for pulling and winding the hose and provided with a pressurizer for internally pressurizing a portion of the hose located between the winder and the feeder so that when the hose is in the oven, the pressurizer forces the liner against the jacket. A controller is provided for controlling the various elements of the apparatus. Also disclosed is a method for curing a hose and the hose so obtained.

## IPC 8 full level

**F16L 11/08** (2006.01); **B29C 35/02** (2006.01); **B29C 35/10** (2006.01); **B29D 23/00** (2006.01); **B32B 1/08** (2006.01); **B32B 5/24** (2006.01); **B32B 7/12** (2006.01); **F16L 11/12** (2006.01); **B29C 35/08** (2006.01); **B29C 53/20** (2006.01); **B29C 53/82** (2006.01); **B29C 63/24** (2006.01)

## CPC (source: EP US)

**B29C 35/0272** (2013.01 - EP); **B29C 35/10** (2013.01 - EP); **B29D 23/001** (2013.01 - EP); **B32B 1/08** (2013.01 - EP US); **B32B 5/024** (2013.01 - US); **B32B 5/24** (2013.01 - EP US); **B32B 7/12** (2013.01 - EP US); **F16L 11/08** (2013.01 - EP); **F16L 11/12** (2013.01 - EP); **B29C 53/20** (2013.01 - EP); **B29C 53/824** (2013.01 - EP); **B29C 63/24** (2013.01 - EP); **B29C 2035/0861** (2013.01 - EP); **B29K 2105/0845** (2013.01 - EP); **B29L 2009/00** (2013.01 - EP); **B29L 2023/005** (2013.01 - EP); **B32B 2597/00** (2013.01 - US)

## Citation (search report)

- [A] DE 2904934 A1 19800821 - HOLZAPFEL GEB JONCKER ANITA
- [X] US 3988188 A 19761026 - JOHANSEN HANS A, et al
- See references of WO 2005031206A1

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

## DOCDB simple family (publication)

**WO 2005031206 A1 20050407**; EP 1676071 A1 20060705; EP 1676071 A4 20110504

## DOCDB simple family (application)

**CA 2004001711 W 20040920**; EP 04786632 A 20040920