

Title (en)
PRODUCTION METHOD FOR DOUBLE-STRUCTURE CONTAINER

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES BEHÄLTERS MIT DOPPEL-STRUKTUR

Title (fr)
PROCEDE DE PRODUCTION D'UN CONTENEUR A STRUCTURE DOUBLE

Publication
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Application
EP 99944778 A 19990922

Priority

- JP 9905184 W 19990922
- JP 26944798 A 19980924

Abstract (en)
In a method of producing a double-walled container having a space between an inner tube and an outer tube, in order to facilitate its production and to reduce its cost, the inner tube 4A is arranged in the outer tube 4B, with the space 4C formed therebetween, and a solid interposition material 4D is held between the tubes at least in one region of the space 4C extending in a direction of a tube axis, and in this condition, a spinning processing is applied to the outer tube 4B, thereby changing cross-sections of the inner and outer tubes 4A and 4B simultaneously. <IMAGE>

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Citation (search report)
See references of WO 0016924A1

Cited by
CN102000729A; CN102430659A; EP2236224A3; CN103316950A; CN104998963A; CN103252650A; EP1302253A3; FR2826301A1; CN102172702A; EP2236227A3; CN103252397A; DE102021127200B3; US9724482B2; WO2023077593A1; WO2007101056A1; WO03002281A1; US7143619B2; US9744313B2; US9005535B2; US10011906B2; US10220163B2; US9682202B2; US9827384B2; US9943654B2; WO2020207960A1; US10004857B2; US10124129B2; US10894134B2; US11642476B2; US7963199B2; US8677793B2; US10124125B2; US10722666B2; US9759108B2; US9757750B2; US10099022B2; US8495901B2; US10016568B2; US10195374B2; US10716905B2

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