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(54) Title (EN): METHOD AND DEVICE FOR FORMING ELLIPTICAL HOLLOW CYLINDER

(54) Title (FR): PROCÉDÉ ET DISPOSITIF DE FORMAGE D'UN CYLINDRE ELLIPTIQUE CREUX

(54) Title (JA): 楕円形筒体の成形方法及び装置

(57) Abstract:

(EN): According to this method for forming an elliptical hollow cylinder, a portion of the elliptical hollow cylinder is formed into the shape of a circular tube by means of a spinning process. The forming method comprises: a first forming step in which said portion of the elliptical hollow cylinder is formed into the shape of a circular tube using an inside roller; and a second forming step in which the diameter of said portion that has been formed into the shape of a circular tube by means of the first forming step is reduced using an outside roller. By adopting this forming method it is possible to reduce the time required for a portion of an elliptical hollow cylinder to be formed into the shape of a circular tube by means of a spinning process.

(FR): L'invention se rapporte à un procédé de formage d'un cylindre elliptique creux, qui consiste à donner à une partie de ce cylindre elliptique creux la forme d'un tube circulaire grâce à un processus de repoussage. Ledit procédé de formage comprend : une première étape de formage où une forme de tube circulaire est donnée à ladite partie du cylindre elliptique creux au moyen d'un rouleau interne ; et une seconde étape de formage où le diamètre de la partie qui a pris la forme d'un tube circulaire à l'issue de la première étape de formage est réduit à l'aide d'un rouleau externe. L'adoption de ce procédé de formage permet de réduire le temps nécessaire pour donner à une partie d'un cylindre elliptique creux la forme d'un tube circulaire grâce à un processus de repoussage.

(JA): 楕円形筒体の成形方法によれば、楕円形筒体の一部がスピニング加工によって円筒形に成形される。上記成形方法は、前記楕円形筒体の前記一部を内側ローラを用いて円筒形に成形する第1成形工程と、前記第1成形工程によって円筒形に形成された前記一部の直径を、外側ローラを用いて小さくする第2成形工程と、を備える。上記成形方法によれば、スピニング加工によって楕円形筒体の一部を円筒状に成形するのに要する時間を短縮できる。

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