

Title (en)
Method for constructing a nozzle and a nozzle

Title (de)
Verfahren zum Bauen einer Düse und Düse

Title (fr)
Procédé de construction d'une buse et buse

Publication
EP 2311724 A1 20110420 (EN)

Application
EP 10187057 A 20101008

Priority
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Abstract (en)
The invention relates to a method for producing a nozzle with an inner wall for guiding a flow of water through a screw propeller, wherein the inner wall has a profile on the one side and possibly also a second profile on the other side. According to the invention, the inner wall of the nozzle is formed from a hollow cylindrical body formed by rolling out plates with an approximate thickness of the inner wall in the radius to the inner wall and by welding the rolled plates to form the hollow cylindrical body and by subsequently spinning the one side of the hollow cylindrical body by means of plastic deformation or spinning to the first and/or the second profile. The invention also relates to a nozzle, wherein the inner wall is an axisymmetric or rotationally symmetric part with no more than one or several welds in the axial direction.

IPC 8 full level
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Citation (applicant)
EP 1129006 A1 20010905 - SCHEEPSWERF VAN DE GIESSEN B V [NL]

Citation (search report)
• [X1] FR 2739831 A1 19970418 - TECIMAR [FR]
• [X1] NL 1004558 C2 19980519 - SCHEEPSWERF VAN DE GIESSEN B V [NL]
• [XD1] EP 1129006 B1 20050112 - SCHEEPSWERF VAN DE GIESSEN B V [NL]
• [A] GB 1070743 A 19670601 - BURNES CORLETT & PARTNERS LTD
• [A] DE 3718954 A1 19881222 - GARTMANN UWE [DE]
• [A] GB 1202144 A 19700812 - SAXTON BRISTOWE BUCKLAND
• [A] US 5531370 A 19960702 - ROHRBERG RODERICK G [US]

Cited by
ES2384710A1

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