

Title (en)  
TURBO DEVICE

Title (de)  
TURBOVORRICHTUNG

Title (fr)  
TURBOMACHINE

Publication  
**EP 2679827 A1 20140101 (EN)**

Application  
**EP 12749591 A 20120221**

Priority  
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• JP 2012054077 W 20120221

Abstract (en)  
In a turbomachinery (S1) that is provided with an impeller (1a) and a shaft (2) that are to be fastened, the impeller (1a) and the shaft (2) are fastened by a two-way screw (3) of which the turning direction of the screw thread that is formed on the impeller (1a) side and the turning direction of the screw thread that is formed on the shaft (2) side are opposite directions. As a result, it is possible to fasten the impeller (1a) to the shaft (2) without the need for a complicated and large equipment, and the amount of work during fastening is reduced.

IPC 8 full level  
**F04D 29/28** (2006.01)

CPC (source: EP KR US)  
**F01D 5/025** (2013.01 - US); **F04D 29/00** (2013.01 - KR); **F04D 29/266** (2013.01 - EP US); **F04D 29/28** (2013.01 - KR);  
**F04D 29/624** (2013.01 - EP US)

Cited by  
EP3757399A4; WO2016188524A1

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