## ASSEMBLING OF X-RAY REFLECTING GLASS FOR OPTICAL UNITS

## **Technology description**

# Method of assembling X-ray reflecting plates into an optical unit.

The mirrors are shaped and **aligned nearly parallel to incoming X-Ray**. The reflection is based on the **grazing angle impact** of the photons or the high-energy particles with the reflecting surface. This technology provides a solution to the problems associated to the frame and alignment required for the X-Ray reflecting surfaces.

## Applications

This solution can provide advantages in those technical applications based on X-ray proton captions, such as X-ray Medical Imaging, material quality controls, security inspection systems and particle telescopes, among others. New areas of application could also include electron microscopy and X-ray based crystallography.

#### Added-value and benefits

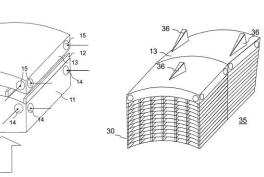
- Reducing manufacture cost compared to similar solutions.
- Increasing performance of equipment dealing with X-ray imaging.
- **Reducing required** X-ray power sources and related costs.
- Increasing focus and, consequently reducing overradiation.

## **Technology readiness**

The technology has been validated under laboratory conditions.

## **IP Status**

Patents have been granted in France, Germany, Italy, United Kingdom and USA and a patent application has been filed in Japan. <u>EP2348348</u>; <u>JP2013503324</u>; <u>US2012182634</u>.





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