

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 over-radiation.**

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. [EP2348348](#); [JP2013503324](#); [US2012182634](#).

