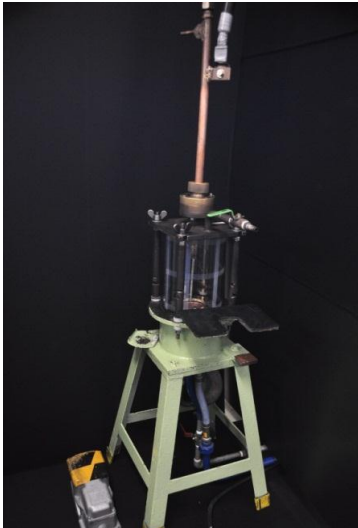


Registration No.	Number 00098		
Registration Date	September 11, 2012	Registration Category	Category 2

Name (Model, etc.)	Button Type Melting furnace for Titanium sponge sample		
Location	Chigasaki City, Kanagawa Pref		
	Toho Titanium Co., Ltd.		
Owner (Custodian)	Toho Titanium Co., Ltd.		
Manufacturer (Company)	Toho Titanium Co., Ltd.		
Year Manufactured	In around 1954-1960		
Reason For Selection	<p>Titanium production requires very strict quality control due to internal and external impurities such as iron and oxygen. Quality levels can vary considerably between batches and even within batches. In the early days it was necessary to break up enormous slabs of titanium and test a large number of fragments, then mix together equivalent quantities from multiple batches in order to ensure that production lots met the required quality standards. At the time, however, there was no device capable of performing rapid analysis of components. Instead test specimens produced in a button furnace were measured for hardness in order to gauge the levels of iron and oxygen impurities.</p> <p>This quality tester was introduced at Toho Titanium in around 1954, when titanium production was still in its infancy, and played an important role in reducing quality variation in titanium production. Hardness testing is still used for measuring product quality today in combination with composition analysis. The button melting furnace is an important relic from the early days of titanium production.</p>		
Registration Standard	1 - A		

Open/Closed to Public	Open to Public with Condition		
Photo			
Other useful information			