Registration No.	Number 00088		
Registration Date	September 27, 2011	Registration Category	Category 2

Name (Model, etc.)	Ruling engine (Model 2)	
Location	Kumagaya City, Saitama Pref	
	NIKON CORPORATION Kumagaya Plant	
Owner (Custodian)	NIKON CORPORATION	
Manufacturer (Company)	Nippon Kogaku K.K. (current Nikon Corporation)	
Year Manufactured	1971	
Reason For Selection	This is a ruling engine, that is, a machine operated by a long micrometer scr that rules equally spaced lines in an optical diffraction grating. This device we developed so that Japan could have the technology for making diffraction grating in monochromators and spectral photometers. To make diffraction gratings, 10 to 1500 parallel lines per millimeter have to be carved with diamond cutter. Do so requires developing an XY stage precision positioning machine using a la interferometer and peripheral technology. Development of this machine a peripheral technology took ten years. This technology in due time became basic technology of semiconductor steppers as photolithography equipment us for the production of semiconductors, and it provided the backbone for Japanese semiconductor technology that dominated the world.	
Registration Standard	1 - A	

