

Innovations in Microphones for Producing Records

Registration No.	Number 00200		
Registration Date	September 15, 2015	Registration Category	Category 1
Name (Model, etc.)	Studio Recording Microphone, Sound Field Type / Sound Pressure Type (Model No.: B & K Type 4006)		
Location	Minato-ku, Tokyo		
	NIPPON COLUMBIA CO., LTD.		
Owner (Custodian)	NIPPON COLUMBIA CO., LTD.		
Manufacturer (Company)	Brüel & Kjær Sound & Vibration Measurement A/S		
Year Manufactured	1979		
Year first appeared	1979		
Reason For Selection	<p>Microphones can include field microphones, which are suited to picking up direct sound close to an instrument, and pressure microphones, which are suited to picking up indirect sound farther from the source of sound or in a location with a lot of reverberant sound. Nippon Columbia and Danish company Brüel & Kjær started a joint investigation into microphones for mainly recording indirect sound. They built a prototype in 1970 and started testing it in a recording studio. This item is an adaptation capable of being used as a field microphone or a pressure microphone, made by improving a measurement microphone for recording and covering the tip of the microphone with a cap carefully machined by numerical control. Like ordinary microphones, field microphones have a flat response in the frontal direction and are a high-quality microphone suited to recording direct sound. While pressure microphones have an increased high frequency range in the frontal direction, they were a ground-breaking recording microphone that could gain a flat response from reverberant sound. Conventionally, field microphones had mainly been used in the recording world; these would pick up muffled reverberant sound that was nothing like the original reverberation in a recital hall. The appearance of the new pressure microphones made it possible to pick up the pleasing reverberation of the concert hall. Even today, over 30 years after its first appearance, the pressure microphone is being very favorably received.</p>		
Registration Standard	1-A (Show an important aspect or stage of the development of science and technology.)		
Open/Closed to Public	Closed to public		
Photo			
Other useful information			