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(54) ION MILLING APPARATUS AND SAMPLE HOLDER

(57) There is provided an ion milling apparatus capable of reliably supporting a part of a sample to be milled and of suppressing material sputtered off by ion beam irradiation from remaining on the sample. The ion milling apparatus (10) has: a sample holder (27) including a shield member (29) for shielding the sample (11) except for a portion to be milled (11b); and a sample locking member (31) cooperating with the shield member (29) such that the sample (11) is sandwiched and held therebetween (31, 29). The shield member (29) has an edge

portion (29a) that determines a milling position on or in the sample (11). The sample locking member (31) is disposed downstream of the edge portion (29a) in the direction of irradiation by the ion beam (12) and has a support portion (33) cooperating with the edge portion (29a) to support the milled portion (11b) therebetween (29a, 33). The support portion (33) has a first surface (34) making contact with the sample (11) and a second surface (35) making a given angle (θ) to the first surface (34). The given angle (θ) is equal to or less than 90°.