

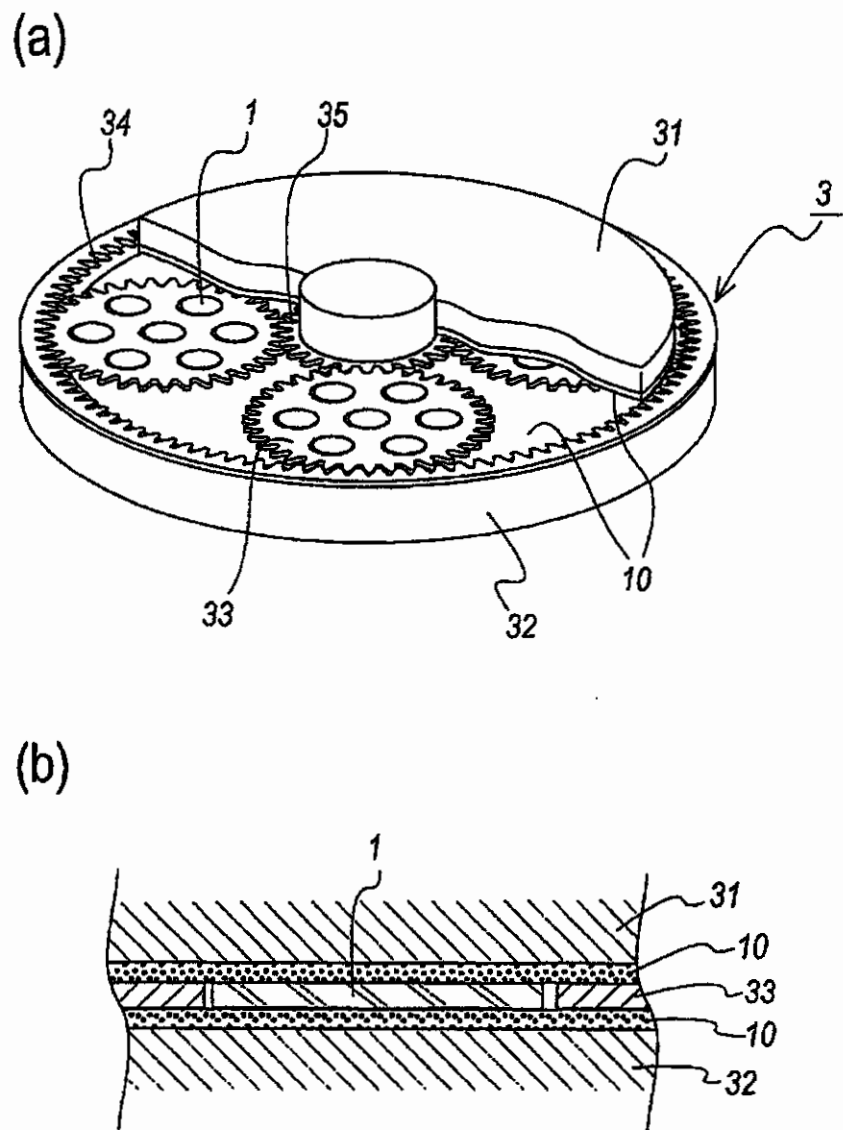


FIG. 1

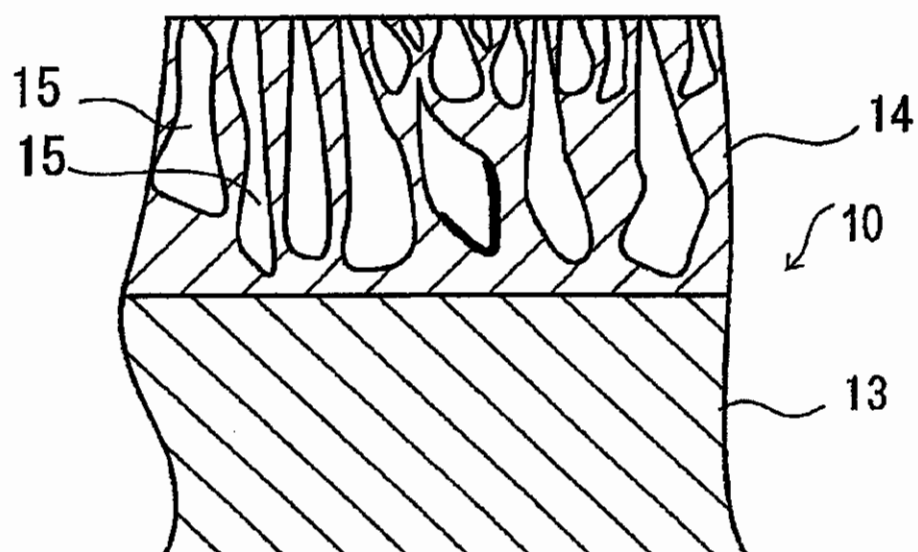


FIG. 2

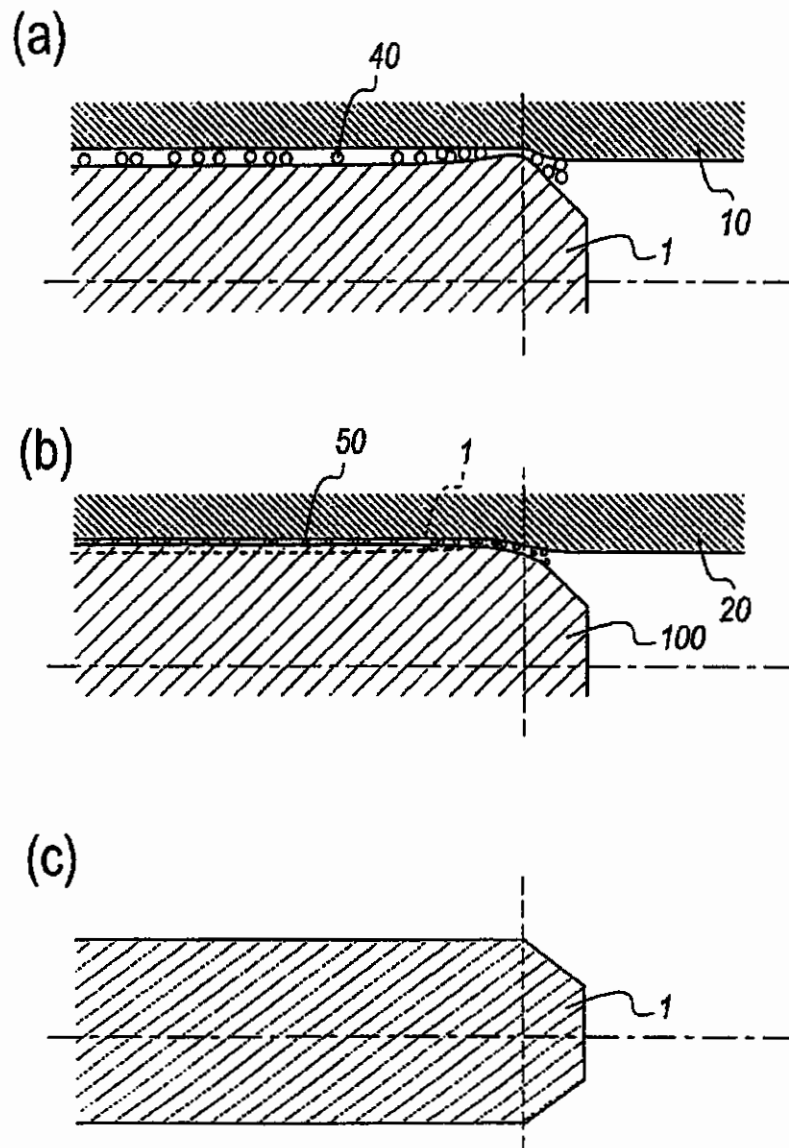


FIG. 3

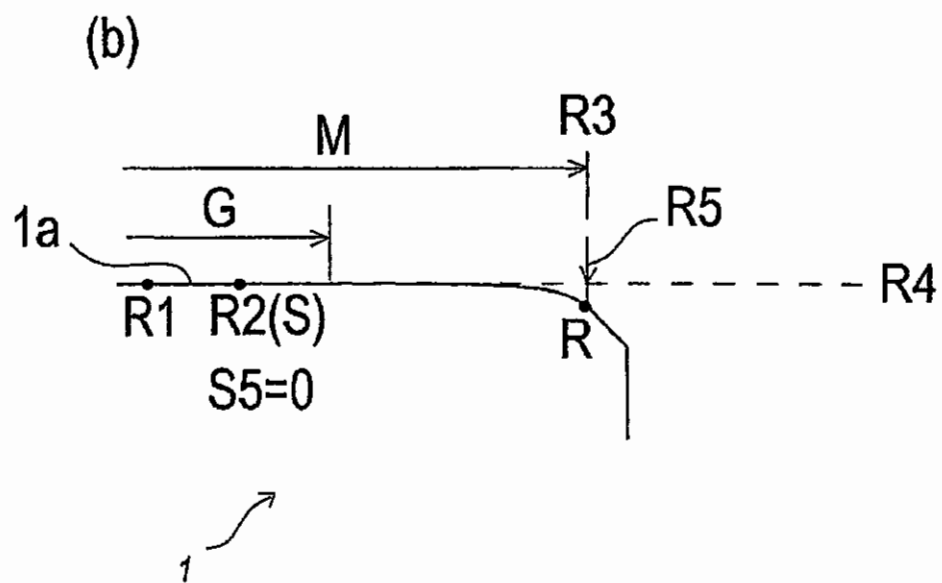
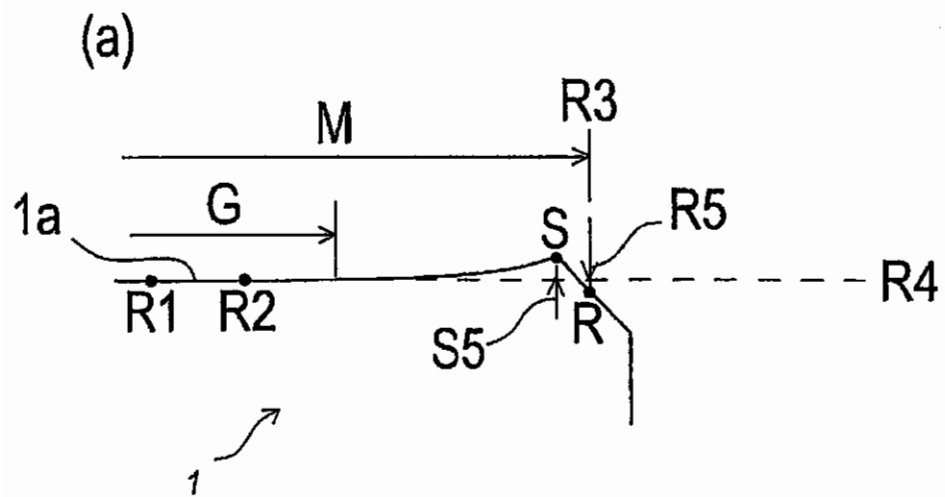


FIG. 4

	(a)		HARDNESS OF POLISHING PAD	GRAIN DIAMETER OF POLISHING MATERIAL	END SHAPE	RESULTS (Roll-Off)
	EXAMPLE	POLISHING PAD				
PRIMARY POLISHING		POLYURETHANE SERIES, SOFT	80 (C HARDNESS)	1.2 μm	SKI-JUMP	0.104 μm
SECONDARY POLISHING		POLYURETHANE SERIES, SOFT	84 (C HARDNESS)	40 nm	ROLL-OFF	-0.046 μm
	(b)		HARDNESS OF POLISHING PAD	GRAIN DIAMETER OF POLISHING MATERIAL	END SHAPE	RESULTS (Roll-Off)
	COMPARATIVE EXAMPLE	POLISHING PAD				
PRIMARY POLISHING		POLYURETHANE SERIES, SOFT	83 (C HARDNESS)	1.2 μm	ROLL-OFF	-0.031 μm
SECONDARY POLISHING		POLYURETHANE SERIES, HARD	84 (C HARDNESS)	50 nm	ROLL-OFF	-0.173 μm

FIG. 5

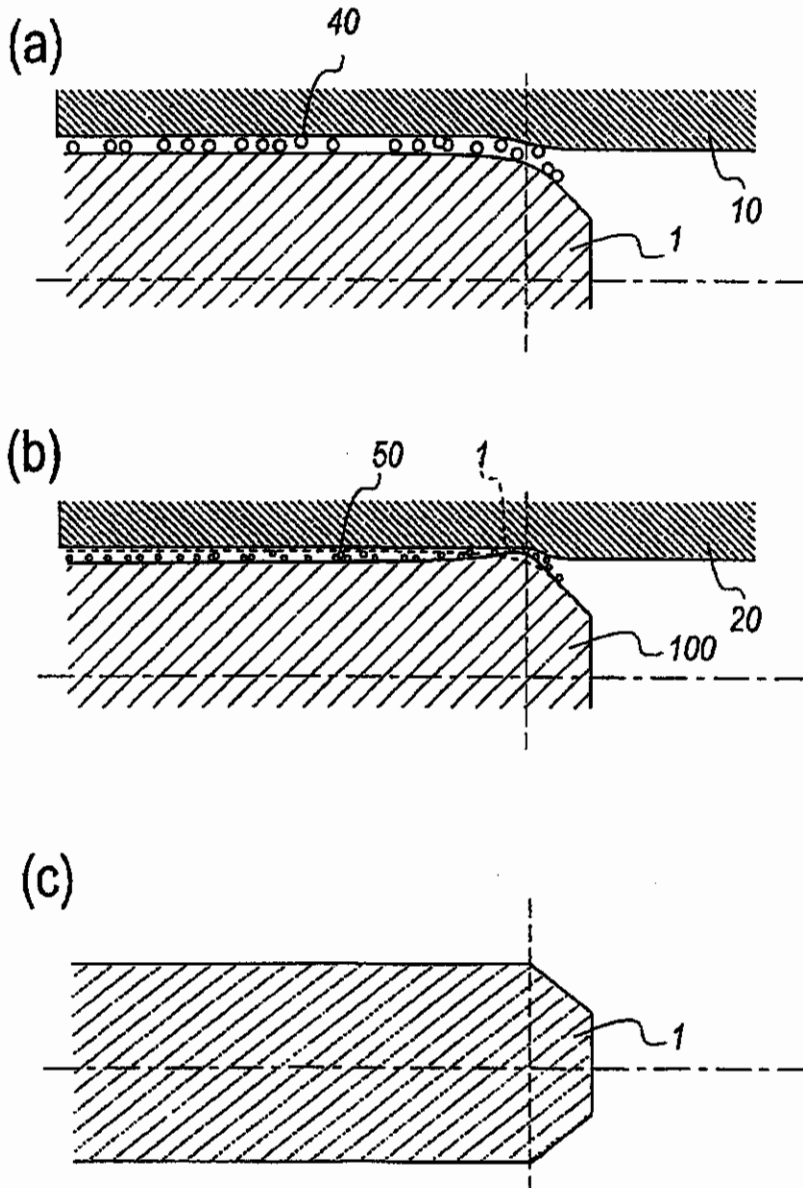


FIG. 6

		URETHANE SERIES, HARD	HARDNESS OF POLISHING PAD	GRAIN DIAMETER OF POLISHING MATERIAL	RESULTS (Roll-Off)	
(a)						
PRIMARY POLISHING	EXAMPLE	POLISHING PAD			END SHAPE	
			80 (C HARDNESS)	1.2 μm	ROLL-OFF	-0.085 μm
SECONDARY POLISHING			72 (C HARDNESS)	0.5 μm	SKI-JUMP	0.034 μm
		POLYURETHANE SERIES, SOFT				
(b)						
COMPARATIVE EXAMPLE			HARDNESS OF POLISHING PAD	GRAIN DIAMETER OF POLISHING MATERIAL	END SHAPE	RESULTS (Roll-Off)
PRIMARY POLISHING			93 (C HARDNESS)	1.2 μm	ROLL-OFF	-0.031 μm
SECONDARY POLISHING			84 (C HARDNESS)	50 nm	ROLL-OFF	-0.173 μm
		URETHANE SERIES, HARD	POLYURETHANE SERIES, HARD			

FIG. 7