Table 5

No.				31	32	33	34	35
Steel				D	D	D	D	G
Cold rolling	First stage	Thickness of the steel plate before rolling	mm	4.0	4.0	4.0	4.0	3.0
		Thickness of the steel plate after rolling	mm	2.5	2.0	1.5	1.0	0.35
		Reduction	%	37.5	50.0	62.5	75.0	88.3
	Second stage	Thickness of the steel plate before rolling	mm	2.5	2.0	1.5	1.0	—
		Thickness of the steel plate after rolling	mm	0.3	0.3	0.3	0.3	—
		Reduction	%	88.0	85.0	80.0	70.0	—
Composition		C	ppm	< 25	< 25	< 25	< 25	< 25
		Si	%	3.01	3.00	2.99	3.01	3.5
		Mn	%	0.64	0.63	0.65	0.63	0.3
Mn concentration	Density in the surface		%	0.48	0.47	0.48	0.46	0.3
	Density ratio in the surface			0.67	0.65	0.66	0.64	0.99
	Maximum ratio of reduction		%/μm	0.006	0.006	0.006	0.006	< 0.0001
Average grain size vs. sheet thickness (ratio)				3.1	4.2	5.3	6.1	0.6
Density ratio of (100) planes parallel to the surface of sheet				53	42	63	56	2.3
Properties after annealing	Presence or absence of abnormal magnetization			absence	absence	absence	absence	absence
	Magnetic flux density	Rolling direction X1	T	1.752	1.775	1.792	1.859	1.558
		Direction of the width of plate X2	T	1.732	1.751	1.790	1.845	1.428
		45° direction Y	T	1.462	1.442	1.416	1.360	0.420
		Average value of X1 and X2 X	T	1.742	1.763	1.791	1.852	1.493
		2(X-Y)/(X+Y)		0.175	0.200	0.234	0.306	0.050