KAWASAKI STEEL TECHNICAL REPORT
No.20 (June 1989)
Information Systems

Development of High Image Clarity Steel Sheet LASERMIRROR

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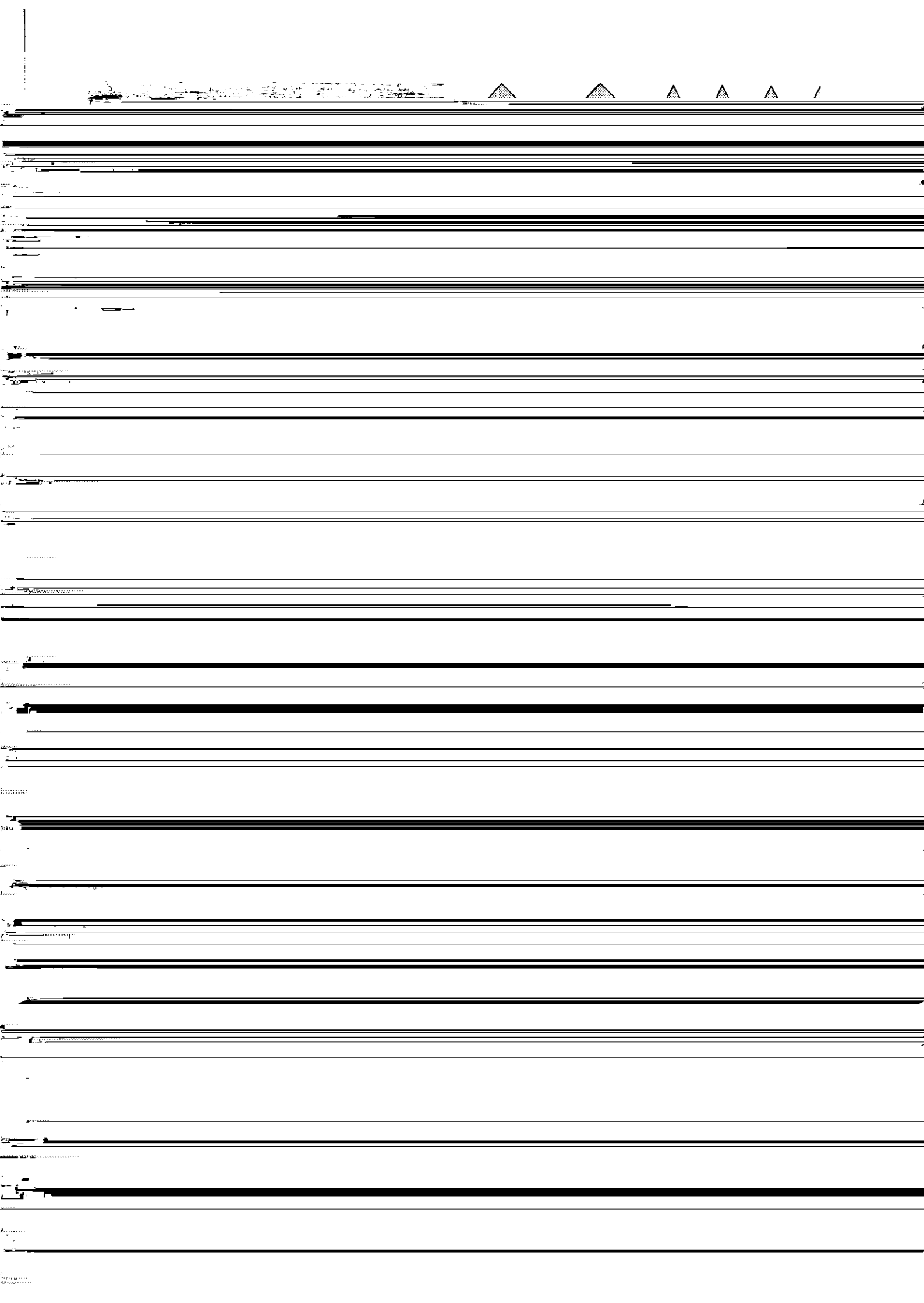
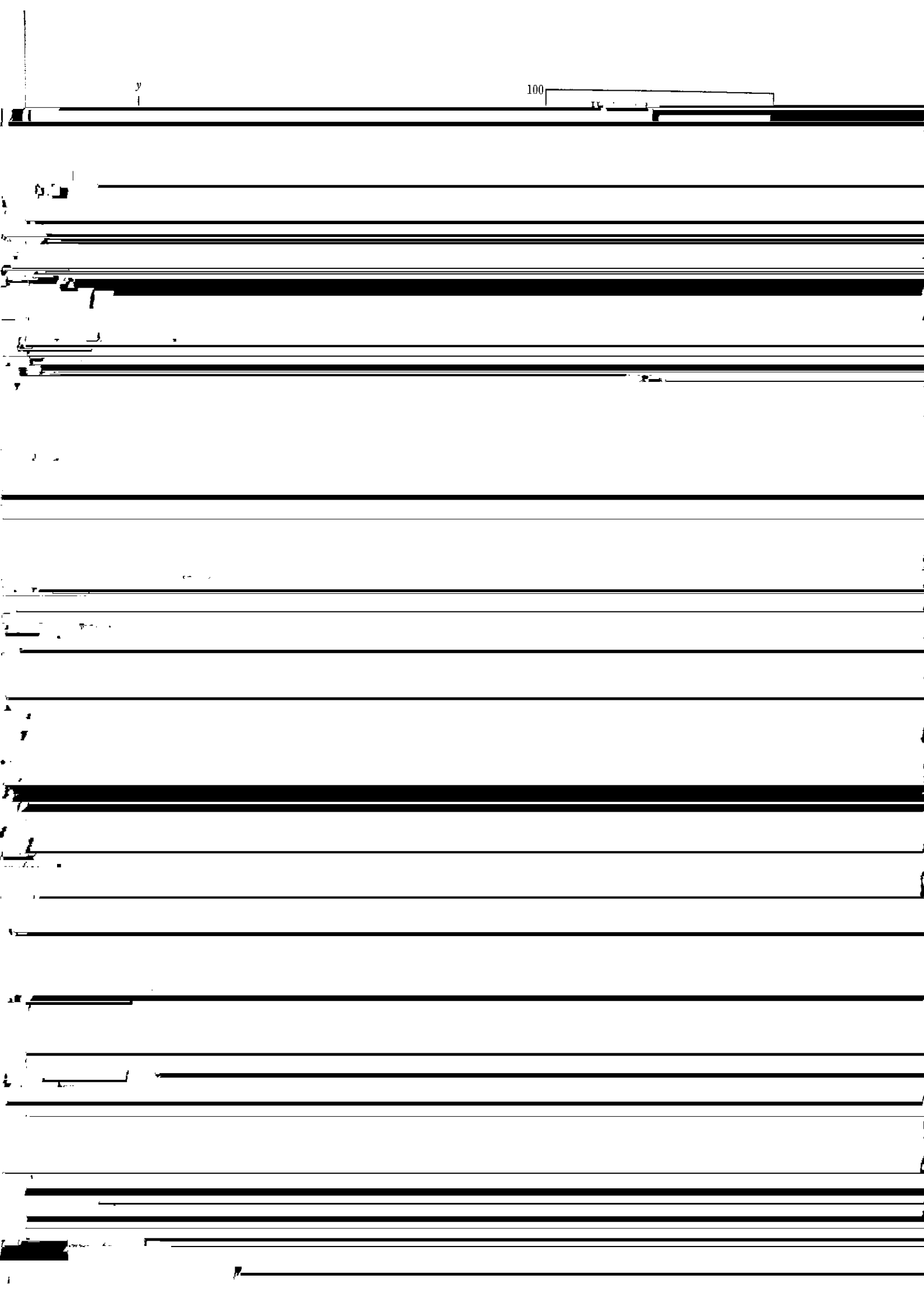
Development of High Image Clarity Steel Sheet LASERMIRROR*

Synopsis:

technique was applied to the control of steel sheet




Waviness pitch

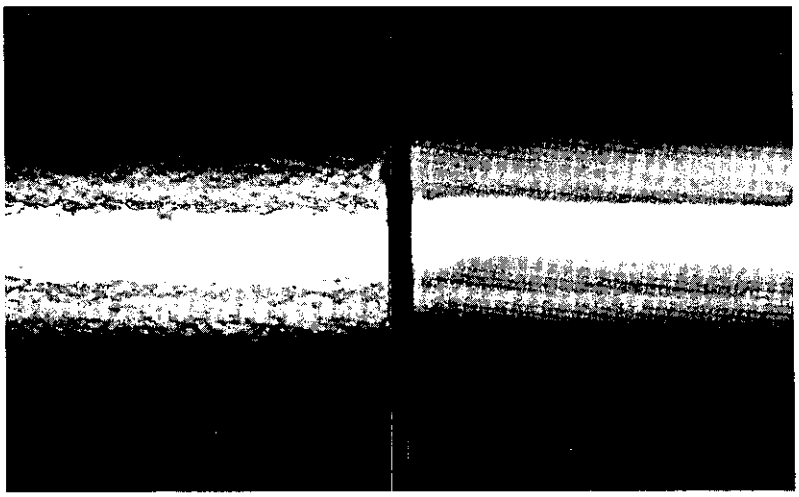

y
100


1 mm
Chopper

surrounding flanges on the roll surface (Photo. 1)

In laser dull texturing, the roll surface shows roughness with a large number of these microcraters. Craters of any size and at any pitch can be regularly arranged on the roll surface by controlling the rpm of the roll

Wavelength components of the steel surface roughness were investigated by a frequency analysis of results of roughness measurements of similar samples. Results of this analysis are shown in Fig. 16. The proportion of



Shot blasted dull sheet LASERMIRROR

Photo 2 Comparison of reflected images on finished often casting between LASERMIRROR and shot blasted dull