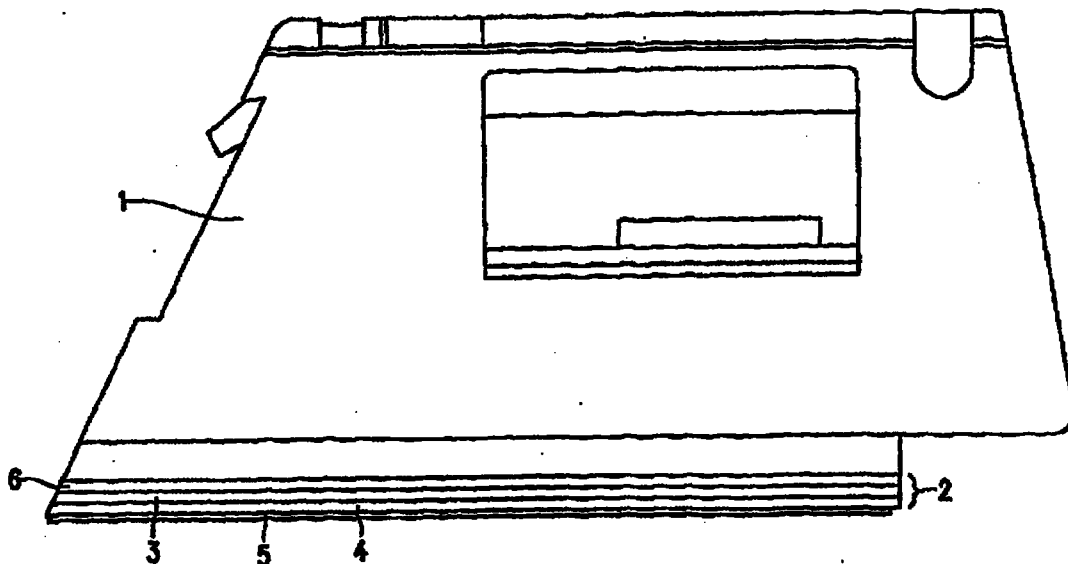




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : D06F 75/38	A1	(11) International Publication Number: WO 98/13544 (43) International Publication Date: 2 April 1998 (02.04.98)
(21) International Application Number: PCT/IB97/00842 (22) International Filing Date: 7 July 1997 (07.07.97) (30) Priority Data: 96202673.8 24 September 1996 (24.09.96) EP (34) Countries for which the regional or international application was filed: NL et al. (71) Applicant: PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). (71) Applicant (for SE only): PHILIPS NORDEN AB [SE/SE]; Kottbygatan 7, Kista, S-164 85 Stockholm (SE). (72) Inventors: DE BEURS, Hans; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). VAN LIEROP, Joseph, Gijsbertus; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). SNIJKERS-HENDRICKX, Ingrid, Jozef, Maria; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). (74) Agent: VAN DER VEER, Johannes, L.; Internationaal Octrooibureau B.V., P.O. Box 220, NL-5600 AE Eindhoven (NL).	(81) Designated States: CN, JP, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>	

(54) Title: IRON AND SOLEPLATE FOR AN IRON



(57) Abstract

The invention relates to an iron having a metal soleplate, which is provided with an anti-friction layer containing an inorganic polymer. To improve the scratch resistance of the anti-friction layer, a hard intermediate layer is provided between the predominantly aluminium part of the sole plate facing the anti-friction layer. This intermediate layer is preferably composed of aluminium oxide which is provided by means of an electrochemical treatment. The use of polymerized alkyl trialkoxysilane, in particular methyl trimethoxysilane, in the anti-friction layer makes it possible to obtain layers which are thicker and hence more scratch-resistant. In such layers, oxidic nano-particles and inorganic color pigments may be incorporated, which cause a further increase of the scratch resistance.