

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2001/0020056 A1**
Yamanouchi et al. (43) **Pub. Date: Sep. 6, 2001**(54) **COLORING COMPOSITION, INK FOR INK JET, AND INK JET RECORDING METHOD**(76) Inventors: **Junichi Yamanouchi**, kanagawa (JP);
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Sep. 4, 2000 (JP) 2000-266964**Publication Classification**(51) **Int. Cl.⁷** **C09D 5/00**; C08K 5/34(52) **U.S. Cl.** **523/161**; 524/91(57) **ABSTRACT**

An ink for an ink jet includes a coloring composition comprising a dispersion medium and coloring particulates

containing an oil-soluble dye represented by formula (1) and a polymer selected from the group consisting of polyurethanes, polyesters, polyamides, polyureas and polycarbonates. The formula (1) satisfies at least one of following (i) to (v): (i) A represents $\text{—NR}^4\text{R}^5$, R^4 and R^5 each represents independently a C_{1-18} alkyl group having a substituent group; (ii) At least one of R^2 and R^7 represents a substituted alkyl group; (iii) R^8 represents an aryl group having two or more substituent groups; (iv) Two or more substituent groups represented by $\text{—NR}^{170}\text{SO}_2\text{R}^{171}$ are present in the molecule; and (v) One or more carboxyl groups are present in the molecule.

Formula (1)

