## United States Patent [19] Kangas

Des. 273,680 [11] **\*\*** May 1, 1984 [45]

#### **ROLLER BIT** [54]

. 1

Ĵ.

- [75] Inventor: Karl-Erik Kangas, Fagersta, Sweden
- [73] Assignee: Fagersta AB, Fagersta, Sweden
- Term: [\*\*] 14 Years
- Appl. No.: 257,874 [21]

: .

- [22] Filed: Apr. 27, 1981
- [30] Foreign Application Priority Data

2,687,875	8/1954	Morton et al.	175/374
3,442,342	5/1969	McElya et al.	175/374
4,187,922	2/1980	Phelps	175/374
4,343,371	8/1982	Baker III et al.	175/336

Primary Examiner-Wallace R. Burke Assistant Examiner-Suzanne N. Gitlin Attorney, Agent, or Firm-Larson and Taylor

[57] CLAIM

The ornamental design for a roller bit, as shown and described.

Nov	. 18, 1980 [SE]	Sweden 80 2298
[52]	U.S. Cl.	
[58]	Field of Search	
		175/329, 336, 374, 377, 378

[56] **References** Cited

### **U.S. PATENT DOCUMENTS**

D. 265,205 6/1982 Munson ...... D15/139

#### DESCRIPTION

FIG. 1 is a top plan view of a roller bit showing my new design.

FIG. 2 is a side elevational view taken in the direction of any one of the three arrows 2 in FIG. 1; FIG. 3 is a side elevational view taken in the direction of any one of the three arrows 3 in FIG. 1. FIG. 4 is a bottom plan view thereof.





## .

.

.

.

.

.

.

-

#### U.S. Patent May 1, 1984

## Sheet 1 of 4

Des. 273,680





.

· · · · · . .

-. .

.

· · · · · . · .

. .

.

,

.

F771

. .

3

.

.

•

· ·

•

. . 

.

. .

.

.

. 

· · · · · ·

.

. ~ •

.

.

.

# U.S. Patent May 1, 1984 Sheet 2 of 4 Des. 273,680

.

.

.

-

٠

F39.2

.



· · ·

.

.

.

#### U.S. Patent May 1, 1984 Sheet 3 of 4

•

## Des. 273,680

.

.

.

FJJJ

- .



Υ.

1

.

. . .

.

• .

.

.

.

.

.

. .

·

.

#### U.S. Patent May 1, 1984 Des. 273,680 Sheet 4 of 4

,

.

.

.

.

.

Fjq. 4



•



· - ·

· · ·

.

.

.

.

.

.

.

.

5

.

.

.

• . . Δ.

.

· ·

.

.

.

· · ·

•

•

. · · ·

. .