

Title (en)

HAULAGE CAR FOR PAPER ROLLS

Title (de)

TRANSPORTWAGEN FÜR PAPIERROLLEN

Title (fr)

CHARIOT TRANSPORTEUR POUR ROULEAUX DE PAPIER

Publication

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Application

EP 97944699 A 19970911

Priority

- DE 9702027 W 19970911
- DE 19637771 A 19960916

Abstract (en)

[origin: DE19637771A1] The invention concerns a haulage car (41) for transporting rolls to a roll changer, which has a guide running perpendicularly to its transport direction to accommodate a second haulage car (16).

IPC 8 full level

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CPC (source: EP US)

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B65H 2405/4223 (2013.01 - EP US); **Y10S 414/124** (2013.01 - EP US)

Citation (opposition)

Opponent :

- WO 9801377 A1 19980115 - ALSTHOM CGE ALCATEL [FR], et al
- DE 8813290 U1 19881208
- JP H07242356 A 19950919 - KANEDA KIKAI SEISAKUSHO KK
- US 4131206 A 19781226 - KAWADA TOMOSHI, et al
- CH 665807 A5 19880615 - VON ROLL AG
- EP 0587015 A1 19940316 - VON ROLL AG [CH]

Cited by

EP2535199A1

Designated contracting state (EPC)

CH DE FI FR GB IT LI SE

DOCDB simple family (publication)

DE 19637771 A1 19980319; **DE 19637771 C2 20020124**; BR 9712828 A 19991116; CN 1075785 C 20011205; CN 1230157 A 19990929;
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EP 1044912 A1 20001018; EP 1044912 B1 20020109; HK 1022887 A1 20000825; JP 2000503957 A 20000404; JP 3236303 B2 20011210;
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